# UNTANGLING DECENTRALIZATION

The words centralization and decentralization have been bandied about for as long as anyone has cared to write about organizations. Yet they represent probably the most confused topic in management. The terms have been used in so many different ways that they have almost ceased to have any useful meaning.

Here we shall discuss the issue of centralization and decentralization exclusively in terms of power over the decisions made in the organization. When all the power for decision making rests at a single point in the organization—ultimately in the hands of one person—we shall call the structure centralized; to the extent that the power is dispersed among many people, we shall call the structure decentralized.

Logically, the subject of decentralization would seem to belong with the discussion of the design of the superstructure. Once the units have been designed, it seems appropriate to address the question of what decisions each should make. But it should be evident by now that all this logic—beginning with the mission, determining the positions, their speculization, formalization, and requirements for training and indoctrination, then grouping the positions to build the superstructure, after that determining the distribution of decisional power within it, and finally leshing the whole thing out with the lateral linkages—has little to do with the practice of organizational design. The relationships among the design parameters are clearly reciprocal, not sequential. The design parameters form an integrated system in which each is linked to all the others: change may one and all the others must be changed as well. Decentralization is successed last because it is the most complex of the design parameters, the most in need of an understanding of all the others.

## Why Decentralize a Structure?

What prompts an organization to centralize or decentralize its structure? As with most of the issues of structure, this one centers on the question of livision of labor versus coordination. Centralization is the tightest means

of coordinating decision making in the organization. All decisions are made by one person, in one brain, and then implemented through direct supervision. Other reasons have been given for centralizing structures, but aside from the well-known one of lust for power, most of them amount to the need for coordination.

Why, then, should an organization decentralize? Simply because not all its decisions can be understood at one center, in one brain. Sometimes the necessary information just cannot be brought to that center. Perhaps too much of it is soft, difficult to transmit. How can the Baghdad salesperson explain the nature of his clients to the Birmingham manager? Sometimes the information can be transmitted to one center but cannot be comprehended there. How can the president of the conglomerate corporation possibly learn about, say, 100 different product lines? Even if a report were written on each, he would lack the time to study them all. Sometimes a sophisticated MIS gives the illusion of knowledge without the capacity to absorb it. Simon cites a newspaper report to tell a common story:

The U.S. State Department, drowning in a river of words estimated at 15 million a month to and from 278 diplomatic outposts around the world, has turned to the computer for help. Final testing is under way on a \$3.5 million combination of computers, high-speed printers and other electronic devices. Officials say these will eliminate bottlenecks in the system, especially during crises when torrents of cabled messages flow in from world troubled spots.

When the new system goes into full operation this Fall, computers will be able to absorb cable messages electronically at a rate of 1,200 lines a minute. The old teletypes can receive messages at a rate of only 100 words a minute. (1968:622)

#### Simon concludes:

A touching faith in more water as an antidote to drowning! Let us hope that Foreign Ministers will not feel themselves obliged to process those 1,200 lines of messages per minute just because they are there. (p. 622)

Perhaps the most common error committed in organizational design is the centralization of decision making in the face of such limitations. The top managers, empowered to design the structure, see errors committed below and believe that they can do better, either because they believe themselves smarter or because they think they can more easily coordinate decisions. Unfortunately, in complex conditions, this inevitably leads to a state known as "information overload": The more information the brain tries to receive, the less the total amount that actually gets through. People at the bottom of the hierarchy with the necessary knowledge end up having to defer to managers at the top who are out of touch with the reality of the situation.

Another, related reason for decentralization is that it allows the organization to respond quickly to local conditions. The transmission of information to the center and back takes time, which may be crucial. The Bank of America once advertised that, by having its "man-on-the-spot," presumably empowered to make decisions, it could provide better service to its clients.

And one last reason for decentralization is that it is a stimulus for motivation. Creative and intelligent people require plenty of room to maneuver. The organization can attract and retain such people, and utilize their initiative, only if it gives them considerable power to make decisions. Such motivation is crucial in professional jobs (and since these are the complex jobs, the professional organization has two good reasons to decentralize). Motivation is also a key factor in most managerial jobs, so some decentralization down the middle line is always warranted. Giving power to middle-line managers also trains them in decision making, so that some day one of them can take over the job of chief executive, where the most difficult decisions must be made.

## some Conceptual Cuts at Centralization/Decentralization/

So far, all this seems clear enough. But that is only because we have not yet looked inside that black box called decentralization. The fact is that no one word can possibly describe a phenomenon as complex as the distribution of power in the organization. Consider the following questions:

- Which is more centralized: a library called "centralized" because it
  is in one place, although most of the decision-making power is
  dispersed to its department heads; or a "decentralized" library
  system, consisting of widely scattered satellite libraries, where the
  chief librarian of each guards all the power, sharing it with none of
  the other employees?
- How about the organization where decision-making power is dispersed to a large number of people but, because their decisions are closely monitored by a central individual who can fire them at a moment's notice, they make those decisions with careful assessment of his wishes? Or the case of the Jesuit priest or CIA agent who has complete autonomy in the field, except that he has been carefully indoctrinated to decide in a given way before he ever left the central headquarters? Are these organizations decentralized?
- In the United States, divisionalized corporations that rely on performance control systems for coordination are called "de-

centralized," whereas Americans are in the habit of calling the communist economies "centralized," even though they are organized like giant divisionalized corporations that rely on performance control systems for coordination. Which is it?

- Does standardization of the work process bring about centralization or decentralization? When a worker, because he is subject to a great many rules, is left free of direct supervision, can we say that he has power over his decisions? More generally, are bureaucracies centralized or decentralized? How about the one Crozier describes, where the workers force through rules that reduce the power of their managers over them, with the result that both end up in straitjackets?
- What about the case where a line manager has the authority to make a decision, but his advisors, by virtue of their superior technical knowledge, lead him into his choices? Or the case where the manager decides but, in executing the choices, his subordinates twist the outcome to their liking? Are these organizations centralized by virtue of the distribution of the formal power, or decentralized by virtue of the distribution of the informal?
- Finally, what about the organization where some decisions—say, those concerning finance and personnel—are made by the chief executive, and others—say, those in the areas of production and marketing—are dispersed to managers lower down? Is it centralized or decentralized?

The answer to these questions is that there is no simple answer, that unqualified use of the term *centralization* or *decentralization* should always be suspect. Yet a great deal of the research and discussion on organization structure has used them in just that way.

So the waters of decentralization are dirty. But before spilling them away, it may be worthwhile to see if we can find a baby in there.

Our list of questions seems to indicate two major points about the concept. First, centralization and decentralization should not be treated as absolutes, but rather as two ends of a continuum. The Soviet economy is not "centralized," just more centralized than a capitalist economy; the divisionalized firm is not "decentralized," just more decentralized than some firms with functional structures. Second, much of the confusion seems to stem from the presence of a number of different concepts fighting for recognition under the same label. Perhaps it is the presence of two or even three babies in that bathwater that has obscured the perception of anyone.

<sup>1</sup>Although we shall see that the opposite is frequently the case, the rhetoric notwithstanding.

Below we discuss three uses of the term *decentralization* and retain two for our purposes. Each is discussed at length in the body of this chapter, and together they are used in a summary section to develop a framework of five basic kinds of decentralization commonly found in organizations.

## Three uses of the term decentralization

The term *decentralization* seems to be used in three fundamentally different ways in the literature:

- 1. First is the dispersal of formal power down the chain of authority. In principle, such power is vested in the first instance in the chief executive at the strategic apex. Here it may remain, or the chief executive may choose to disperse it—delegate is a common synonym for this kind of decentralization—to levels lower down in the vertical hierarchy. The dispersal of formal power down the chain of line authority will be called vertical decentralization.
- Decisional power—in this case, primarily informal—may remain
  with line managers in the system of formal authority, or it may
  flow to people outside the line structure—to analysts, support
  specialists, and operators. Horizontal decentralization will refer to
  the extent to which nonmanagers control decision processes.<sup>2</sup>
- 3. Finally, the term *decentralization* is used to refer to the physical dispersal of services. Libraries, copying machines, and police forces are "centralized" in single locations or "decentralized" to many, to be close to their users. But this "decentralization" has nothing per se to do with power over decision making (the satellite library, like the copying machine, may not make the decisions that most affect it). Thus, this third use of the term only serves to confuse the issue. In fact, we have already discussed this concept in Chapter 3, using the terms *concentrated* and *dispersed* instead of *centralized* and *decentralized*. In this book, the term *decentralization* will not be used to describe physical location.

This leaves us with two essential design parameters: vertical and horizontal decentralization. Conceptually, they can be seen to be distinct. Power can be delegated down the chain of authority and yet remain with managers; the ultimate case of this vertical decentralization with hori-

Note that the term *horizontal* correctly describes this flow of power to analysts and support specialists as they are shown in our logo. The operators are, of course, shown below the vertical chain of authority but, for convenience, are also included in our definition of horizontal decentralization.

authority and then out to the operators. of both types occurs when the strategic apex keeps all the power; decentralization of both sees power pass all the way down the chain of Alternatively, senior staff people could hold all the power. Centralization zontal centralization would give all the power to the first-line supervisors.

many kinds of decisions to the same place. For example, finance, market supervisors. Parallel decentralization refers to the dispersal of power for ent places in the organization. For example, finance decisions may be centralization, the power over different kinds of decisions rests in differing, and production decisions would all be made by the division managers production decisions at the bottom of the middle line, by the first-line made at the strategic apex, marketing decisions in the support units, and This gives rise to two other kinds of decentralization. In selective de-But power over all decisions need not be dispersed to the same place

vary. We need a framework to understand what control over the decision process really means. within a single decision process, the power wielded by different people can tion found in organizations, we need to consider one more issue. Even But before we can begin our discussion of the kinds of decentraliza-

power over the whole process. over any step in the decision process, from initiating the original stimulus as marketing a new product, building a new factory, hiring a new mechanultimately control over actions—what the organization actually does, such to driving the last nail in the final execution of it, constitutes a certain ic. And actions can be controlled by more than just making choices. Power What matters, of course, is not control over decisions per se but

done; (4) authorizing elsewhere what is intended to be done; and (5) doing decision maker, without comment, about what can be done; (2) processing modified form in Figure 5-1: (1) collecting information to pass on to the issue. He depicts the decision process as a number of steps, as shown in it—that is, executing what is, in fact, done. The power of an individual is be done; (3) making the choice—that is, determining what is intended to be that information to present advice to the decision maker about what should then determined by his control over these various steps. His power is Paterson provides us with a useful framework for understanding this

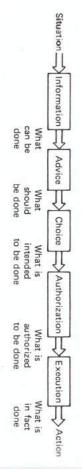


Figure 5-1. A continuum of control over the decision process (similar to Paterson, 1969:150)

all the steps: when he collects his own information, analyzes it himself, maximized—and the decision process most centralized—when he controls becomes decentralized. himself. As others impinge on these steps, he loses power, and the process makes the choice, need seek no authorization of it, and then executes it

ended up being theirs. doing what they thought best in the first place. In effect, the decisions to twist or even distort it. Newspapers carry accounts every day of how the III. And the right to execute a choice once made often gives one the power right to authorize a choice is, of course, the right to block it or even change happens after the choice has been made can also constitute power. The a Rasputin in Russia—controlled the affairs of state. Control over what who were virtual figureheads, while their advisors—a Richelieu in France, ing advice and making the choice is fine indeed. History tells us of kings "bureaucrats" misdirected the intentions of the politicians and ended up lions notwithstanding, there are times when the separation between giv-It directs the decision maker down a single path. Classical line/staff distinctrol over the choice itself. More important still is the power to advise, since information is filtered extensively, such control can be tantamount to confactors will—and will not—be considered in the decision process. When Control over input information enables another person to select what

does not necessarily constitute tight centralization. With this in making of choices—as opposed to control over the whole decision promind, let us now look at vertical and horizontal decentralization. errs above, and to the executers below. In other words, control over the power to the information gatherers and advisors to his side, to the authorbe called decision maker): In the organizational hierarchy, he loses some maker controls only the making of the choice (the least he can do and still And so, a decision process is most decentralized when the decision

### Vertical Decentralization

my and executing. Three design questions arise in vertical decentralization: middle line. The focus here is on formal power-to make choices and Ing power down the chain of authority, from the strategic apex into the milhorize them—as opposed to the informal power that arises from advis-Vertical decentralization is concerned with the delegation of decision-mak-

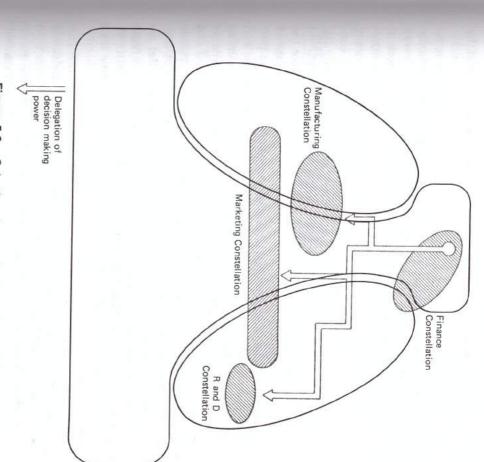
- 1. What decision powers should be delegated down the chain of authority?
- 2. How far down the chain should they be delegated?
- 3. How should their use be coordinated (or controlled)?

and marketing decisions farther down the chain of authority than they do authority. Dale (cited in Pfiffner and Sherwood, 1960:201) and Khandwalla sider first some evidence on selective decentralization down the chain of cated knowledge that was at the command of the scientist or group leader necessary information can best be accumulated. For example, in the plaspower for finance and legal decisions. Lawrence and Lorsch (1967) found mulated there. Marketing decisions fell in between these two these decisions tended to be made at relatively low levels in the hierarchy in the laboratory but was difficult to transfer up the hierarchy. Hence, tics industry, research and development decisions involved very sophistithat power for a decision process tends to rest at that level where the (1973a) found that corporations tend to delegate power for manufacturing (plant manager), because the appropriate information could easily be accu-In contrast, manufacturing decisions tended to be made at higher levels These three questions turn out to be tightly intertwined. Let us con-

work constellations, our fourth overlay of Chapter 1. Each constellation involved in the top three constellations, and the fourth is exclusively staff. as well as vertical; staff groups at different hierarchical levels are shown tional basis. (Note that the decentralization in this case can be horizontal tion is logically associated with work constellations grouped on a functhe research and development one. Thus, selective vertical decentralizaturing constellation below that, then a marketing constellation, and finally bining these findings in Figure 5-2, we come up with four work constelladecisions of a functional area can be accumulated most effectively. Comexists at that level in the hierarchy where the information concerning the tions overlaid on our logo—a finance constellation at the top, a manufac-These findings, in effect, describe the organization as a system of

cies to be reconciled, which raises the question of coordination and control nated, by the managers at the strategic apex. But too great a reliance on this decisions of each work constellation authorized, and therefore coordi emphasis on the use of the liaison devices. making largely by mutual adjustment. Specifically, it will place heavy of activity planning, in the final analysis, the organization that is selecstellations to the technostructure, which amounts to horizontal centralizasince that transfers power over the decision processes from all the conprocesses and thereby canceling the advantages of selective decentraliza form of coordination would be tantamount to recentralizing the decision Direct supervision may be used to some extent, specifically by having the tively decentralized in the vertical dimension will coordinate its decision tion instead of vertical decentralization. So although it may make some use tion. The same is true for the standardization of work processes or outputs. But such selective decentralization leaves important interdependen-

vertical dimension. This kind of decentralization does away with decision The situation is quite different for parallel decentralization in the



constellations Figure 5-2. Selective decentralization to functional work

sionalized corporation typically delegates marketing and manufacturing decision-making power is always retained at the strategic apex. The divivertical decentralization must always be somewhat selective. That is, some they need to function in a quasi-autonomous manner. (Of course, such decentralization is the only way to grant market-based units the power given the power necessary to make all those decisions that affect its own corporate sector. Each unit or division is decoupled from the others and basis of market. This is the structure known as "divisionalized" in the at a single level in the hierarchy, specifically within units grouped on the products, services, or geographical areas. In other words, parallel vertical interdependencies: power for the different functional decisions is focused

decisions to the divisions but keeps finance and acquisition decisions at the

strategic apex.) used, that each market unit contributes to the goals considered important work across them. What is important is to ensure that the autonomy is well need to encourage mutual adjustment or action planning to coordinate unduly. Three coordinating mechanisms present themselves for such conling the behavior of its market units without restricting their autonomy by the strategic apex. So the strategic apex faces the delicate task of control-(The standardization of work processes would obviously be too restrictive.) trol-direct supervision and the standardization of skills and of outputs With the extensive autonomy of each market-based unit, there is no

and indoctrination, can also be used to control the behavior of the manager instead of its own manager. The standardization of skills, through training moves way out of line. But too much direct supervision defeats the purmajor expenditures of the units and to intervene when their behavior of the market unit. He may, for example, be carefully indoctrinated and pose of the decentralization: the strategic apex comes to manage the unit remains the need to monitor behavior—to find out when it is out of line. then sent out to run it with considerable autonomy. But there typically centralization in the vertical dimension (to market-based units) is regu-And that is typically left to the performance control system. Parallel delated primarily by performance control systems. The units are given performance standards, and as long as they meet them, they preserve their There is some room for direct supervision, notably to authorize the

Alfred P. Sloan reorganized General Motors in the 1920s under the maxim stitute "decentralization"? In the corporate world, the terms "divisionaltion, Sloan established product divisions with some operating autonomy series of acquisitions but had never consolidated it into a single organiza-(Chandler, 1962:160; see also Sloan, 1963). Faced with a structural mess left "decentralized operations and responsibilities with coordinated control" ization" and "decentralization" have been used synonomously ever since sionalization constitute decentralization? Not at all; it constitutes the vest corporations followed suit, and today the divisionalized structure is the but maintained tight financial controls at headquarters. A number of large by William C. Durant, who had put the legal entity together through a ing of considerable decision-making power in the hands of a few peoplemost popular one among the largest American corporations. But does divi power farther down the chain of authority, or out to staff specialists. But of vertical decentralization. These managers can, of course, delegate their nothing more. That is, divisionalization constitutes a rather limited form the market unit managers in the middle line, usually near the top of itnothing requires them to do so. To paraphrase Mason Haire (1964:226) But does parallel vertical decentralization to market-based units con-

> which these decisions are made by even fewer managers at the strategic can control decisions that affect thousands or even millions of people can hardly be called decentralized, although it is certainly more so than one in A structure—capitalist or communist—in which a few division managers ture in a different context—the communist economy—is called centralized. tralized" show!3 Thus, we should not be surprised when the same struc-"decentralization" can give a manager the autonomy to run a "cen-

### Horizontal Decentralization

authority, at the will of the top managers. decentralization dealt with the delegation of that power down the chain of of the organization, in the first instance at the strategic apex. Vertical tors). An assumption in our discussion of vertical decentralization was that power—specifically formal power, or authority—rests in the line structure line managers to staff managers, analysts, support specialists, and operathe shift of power from managers to nonmanagers (or, more exactly, from Now we turn to the question of horizontal decentralization-namely, to

ollowhere—for example, with operators who are empowered to elect the managers of the strategic apex. ture, in the first instance at the strategic apex. Here formal power can rest drop the assumption that formal power necessarily rests in the line structhese choices. And second, in discussing horizontal decentralization, we execution of their choices, as opposed to the making and authorizing of over information gathering and advice giving to line managers and the structure, we move into the realm of informal power, specifically of control slon in two regards. First, in discussing the transfer of power out of the line When we talk of horizontal decentralization, we broaden the discus-

wittralization, listed below: operators, we can imagine a continuum of four stages of horizontal de-Assuming the presence of managers, analysts, support staff, and

- Power rests with a single individual, generally by virtue of the office he occupies (i.e., a manager).
- Power shifts to the few analysts of the technostructure, by virtue of the influence their systems of standardization have on the decisions

In full back the autonomy and order the subordinate to push decentralization down further? But that raises a dilemma for the manager up above who prefers more decentralization. "Can I will this centralized intervention to further decentralization destroy the decentralization?"

- Power goes to the experts—the analytic and support staff specialists, or the operators if they are professional-by virtue of their
- Power goes to everyone by virtue of membership in the organization

further discussion; let us therefore consider the other three in turn. cause everybody is a member of the organization. The first case requires no then to all the experts with knowledge, and finally to everybody just beresponsive leader," such as a John F. Kennedy (Kochen and Deutsch, the Byzantine emperor, and the "omnicompetent but very accessible and difference between the "omnicompetent, aloof, imperial ruler," such as can be variations according to how open that person is to advice. There is a tion, first to a few analysts whose systems control the behavior of others 1973:843). Hereafter, we find different degrees of horizontal decentralizaholds all the power, typically the top manager. Of course, even here, there Thus, in the most horizontally centralized organization, one person

#### Power to the analysts

standardizing their skills—should have less power still. Thus, the factory threat to his autonomy, followed by the production scheduler and then the worker would normally perceive the work-study analyst as the greates izing their outputs. And trainers—those who teach people to produce by planners—those who only tell them what and when to produce by standardcesses—should typically have more power than production schedulers and those who tell workers how to produce by standardizing their work proful the analysts. By that token, job designers and work-study analysts of a hospital. And the tighter the kind of standardization, the more powerstudy analysts of an automobile company are more influential than those for coordination, the greater the power of the analysts. Soviet government Obviously, the more the organization relies on systems of standardization power, of course, depends on the extent and the kind of standardization. of those systems, typically the analysts of the technostructure. How much tion, some power must pass out from the line managers to the designers planners have more power than their American counterparts; the work-When an organization relies on systems of standardization for coordina-

work process, or the manager who loses the power to decide on his unit's is standardized, such as the operator who loses the power to choose his Who surrenders power to the analysts? Obviously, those whose work

4However, to the extent that planners and trainers direct their efforts at people higher up in training takes place outside the organization. We shall return to this point later in the chapter the structure, they can be more influential. Moreover, we should not forget that much of the

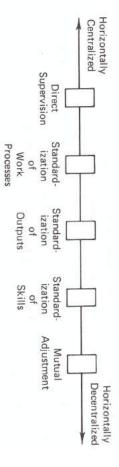
> their power of direct supervision. outputs. But so, too, do the managers of these people; as noted earlier, their jobs became institutionalized, technocratic standardization replacing

what in the horizontal. centralized in nature, especially in the vertical dimension but also sometions that rely on technocratic standardization for coordination are rather lower-line managers relative to those higher up. In other words, organizaorganization in the vertical dimension, by reducing the power of the others whose behavior and outputs are standardized. And second, this some informal power, and that at the expense of the many operators and few nonmanagers—these designers of the technocratic systems—gain kind of limited horizontal decentralization in fact serves to centralize the lysts constitutes only a limited form of horizontal decentralization. Only a This leads us to two important conclusions. First, power to the ana-

sion-making power flowing up to a remote central headquarters. quite a different conclusion: that both end up in a straitjacket, with decithereby give more power to the workers. The work of Crozier suggests dards, by limiting the power of the manager to exercise direct supervision, conclusive. Some researchers have argued that bureaucratic work stanin the research literature. As we have seen, the research has not been Are bureaucracies centralized? This has been a controversial question

work rules instead of managers control the workers is like calling puppets purposeful because computers instead of people pull their strings. becomes decentralized. But calling a bureaucracy decentralized because supervision: an organization is centralized if direct supervision is close; to the extent that work standards replace direct supervision, the organization giving rise to decentralization seem to equate centralization with direct terms of our five coordination mechanisms. Those who see work rules as We can sort out much of this confusion by discussing centralization in

coordinated by the standardization of skills, they would be trained and allowed to choose their own work processes. Better still, if their work was muchanisms would yield its employees more freedom still in their work. mly on such rules for coordination, and so proliferate them. The important that would happen if their outputs were standardized and they were point is that reliance by the organization on any of the other coordinating discussing organizations where the rules are many-bureaucracies that rules are few, the employee has considerable discretion. But we are here does not mean that it is a loose coordinating mechanism. Of course, if the " And standardization of work processes may provide the employee with more autonomy, since he knows what he can and cannot do. But that on the knuckles from the boss: "That is not the way I expected you to do horizontal centralization. Any move the individual makes can bring a rap therefore close control by managers may constitute the tightest form of Direct supervision may be the tightest coordinating mechanism, and



of horizontal decentralization The coordinating mechanisms on a continuum

out their own coordination by mutual adjustment. supervision altogether; the employees would be completely free to work saw fit. And best of all would be the absence of standardization and direct alone to choose their work processes and determine their outputs as they indoctrinated before they started to work and thereafter would be left

standardization-first work processes, then outputs, finally skills-fallcentralizing and mutual adjustment the least, and with the three forms of give a certain amount of power to their analysts to design the standards nism, we conclude that organizations that rely on this mechanism for ing in between. And because standardization of work processes falls next nisms form a continuum, with direct supervision the most horizontally centralization coupled with only limited horizontal decentralization. and as we have just concluded, such power to the analysts means vertical coordination are relatively centralized. Specifically, such organizations to direct supervision as the second most centralizing coordinating mecha-In other words, as shown in Figure 5-3, the coordinating mecha-

with professional operators who coordinate their work by the standardizaoperators. But earlier we came across a second kind of bureaucracy, one standardization of work processes to coordinate the work of their unskilled centralized. These particular bureaucracies are-the ones that rely on the dimension. We shall return to it below. this second kind of bureaucracy is relatively decentralized in the horizontal decentralization end of our Figure 5-3 continuum, we can conclude that tion of their skills. And because this coordinating mechanism falls near the But to tie up a loose end, we cannot say that all bureaucracies are

#### Power to the experts

operating rooms, the Wernher von Brauns rule the space agencies. In the of blind men, the one-eyed man is king." The surgeons dominate the support staff, operating core, or, for that matter, middle line. "In the world is-namely, with the experts, whether they be in the technostructure on specialized knowledge. So it must put its power where its knowledge In this stage of horizontal decentralization, the organization is dependent

> come to participate actively in making decisions. knowledge of a wider array of experts and begins to formalize more and and his power was informal. But here the organization draws on the previous discussion, there was only one recognized expert—the analyst more of the power it gives to them. The experts do not merely advise; they

We can identify at least three types of expert power. found in its structure determine how much power they can accumulate. How dependent the organization is on its experts and where they are

could handle the one major source of uncertainty. nance men ruled the tobacco factories Crozier studied because only they certain experts attain considerable informal power. Thus, the mainteagers. But to the extent that the organization has need of specialized knowledge, notably because certain decisions are highly technical ones, remains intact; that is, formal power remains in the hierarchy of line manthe least horizontally decentralized type, the system of formal authority Informal expert power superimposed on a traditional authority structure. In

lion. In effect, systems of capital budgeting often fail because they cannot knowledge of it and the time to get it. So the situation is ripe for manipulamore objective in his assessment of the project, but he lacks the detailed authorized. The manager above, who must do the authorizing, can be the expert knowledge of it but also has a strong commitment to see it decision or project, that person who first decided to proceed with it, has put the formal power for authorization where the required knowledge of lends itself to the manipulation of managers by experts. The sponsor of a decision making, often carried out as part of a capital budgeting process, choices that the managers do not understand. The authorization step of the advice they give managers before choices are made, especially technical These experts made choices. Others gain informal power by virtue of

fore, to selective decentralization in the horizontal dimension, the experts alluation of expert power merged with formal authority amounts, thereaccording to the knowledge he can bring to the decision in question. This group is based not on position but on expertise; each person participates from the technostructure, middle line, and support staff. Power within the making power. A good example is the new-product group that brings together marketing, manufacturing, engineering, and research personnel experts join in task forces and standing committees to share decisionand staff-between the formal authority to choose on the one hand and creasingly important in decision making, the distinction between line the expertise to advise on the other-becomes increasingly artificial. eventually, it is done away with altogether, and line managers and staff Expert power merged with formal authority. As expertise becomes in-

to Figure 5-2, where various functional work constellations were overlaid currently in both the horizontal and vertical dimensions. dimension. In other words, selective decentralization seems to occur conon our logo, suggests a link to selective decentralization in the vertical having power for some decisions but not for others. In fact, reference back

and because coordination is effected primarily by the standardization of imposed on it from the outside, by the professional associations that train vertically and horizontally, because most of its decision-making power organization, the more decentralized its structure in both dimensions in both dimensions. That is, power rests with the operators at the bottom the Figure 5-3 continuum—this second bureaucracy is rather decentralized skills—a coordinating mechanism shown near the decentralization end of because the professionals require considerable autonomy in their work its operators and later impose certain rules to govern their behavior. But staffed with professionals. It is bureaucratic by virtue of the standards malize the behavior of everyone else. In the second, the operating core is rests with its senior managers and the small number of analysts who foring work is specialized but unskilled. It is relatively centralized both ute of the work standards imposed by its own technostructure. Its operattively centralized, the other decentralized. The first is bureaucratic by vir-We can now see the two kinds of bureaucracy emerging clearly, one rela-This brings the issue of bureaucracy and centralization into sharper focus. ship, one that is well supported in the research: the more professional an tors are professional ones, which leads us to a rather important relationthe bottom of the hierarchy with nonmanagers. Of course, expert operathe organization in both dimensions: power rests in the operating core, at expertise vests in them considerable power, which in turn decentralizes case of expert power, the operators themselves are the experts. And this Expert power with the operators. In this third and most decentralized

#### Power to everyone

tors control much of the decision making. decentralized, culminating in the professional organization whose operaization; and that the more that power is attributed to knowledge as opnostructure and thereby constitutes a limited form of horizontal decentralthrough the formalization of behavior puts some power into the techmanagers constitutes horizontal centralization; that bureaucratization posed to position, the more the structure becomes horizontally The theme of our discussion so far has been that power in the hands of the

Professional organizations may be meritocratic but they are not demo-But, in theory at least, that is not the ultimate case of decentralization.

> nurses) of the hospital about their status vis-à-vis the doctors. not be evenly distributed. One need only ask the orderlies (or even the cratic. As long as knowledge is not uniformly dispersed, so too will power

making. The organization is democratic. knowledge, but on membership. Everyone participates equally in decision Decentralization is complete when power is based not on position or

vate clubs—approach this ideal, but can more conventional organizations? equal. Certain volunteer organizations—such as Israeli kibbutzim or prithey would have no special influence in making them. Everyone would be sensus. Managers might be elected to expedite the members' choices, but tion would settle all issues by something corresponding to a vote or con-Does such an organization exist? The perfectly democratic organiza-

representatives. tors of the larger corporations are by law reserved for workers' tion" (self-management). In Germany, half the seats on the boards of direcelect their own managers. In France, there has been much talk of "autogesrope recently. In Yugoslavia, workers own many of the enterprises and "Industrial democracy" has received considerable attention in Eu-

and the Middle East, Strauss and Rosenstein conclude: excellent review of worker participation in eight countries of Europe, Asia, do not lead to pure democratization, or anything close to it. Thus, in their The evidence from these efforts suggests, however, that these steps

- Participation in many cases has been introduced from the top down as a symbolic solution to ideological contradictions;
- Its appeal is due in large part to its apparent consistency with both socialist and human relations theory;
- 3. In practice it has only spotty success and chiefly in the personnel and welfare rather than in the production areas;
- Its chief value may be that of providing another forum for the resolution of conflict as well as another means by which management can induce compliance with its directives. (1970:171)

rentralize the organization in both the vertical and horizontal dimensions. professionalism" (p. 186). Paradoxically, industrial democracy seems to lop management at the expense of other groups, "to bypass middle (A probable reason for this will be discussed in the next chapter.) management, to weaken the staff function, and to inhibit the development participation has been shown in some studies to strengthen the hand torested in issues that do not pertain directly to their work. Most surpris-These reviewers and others suggest that workers are not really in-

seems to have a similar effect. In this case, as noted earlier, the workers Crozier describes another kind of organizational democracy, which

doubly bureaucratic in this case means, in the same sense, doubly cencoordinate the work as well as special ones to protect the workers. And ture is, in a sense, doubly bureaucratic—there being the usual rules to in turn reverts up to the organization's headquarters. The resulting strucexploited that last remaining bit of uncertainty). Power for decision making straitjacket (except for the maintenance men of the tobacco factories, who renders the two equal—superior and subordinate are locked into the same institute rules that delimit the power their superiors have over them. That higher-order needs of its workers. extreme rigidity rendering it less able to serve its clients or to satisfy the nization emerging as more bureaucratic and more centralized than ever, its tralized. So what results is a perverse kind of democracy indeed, the orga-

volve your employees and they will produce more," management has been testable—nature, is that participation leads to increased productivity: "Inthe United States. What has received considerable attention there instead pate in the organizations that employ them." The American debate over in and of itself: "In a 'democratic' society, workers have the right to particition and so not subject to verification, is that participation is a value worthy told by a generation of industrial psychologists. The other, a value proposipropositions should be clearly distinguished. One, of a factual—that is, the work situation in question. correlated with satisfaction or productivity. Those relationships depend on Fiedler (1966) and other have indicated that participation is not necessarily the factual proposition has not held up in much of the research. Studies by the second, value position). In the light of this focus, it is interesting that tual proposition (although the proponents seem really to be committed to participative management has focused almost exclusively on the first, fac-"participative management." In discussion of this concept, two of its These movements in organizational democracy have barely touched

out the organization. But democracy does not depend on the generosity of those who hold on them for advice and perhaps to share in the making of choices as well ratization, since it is based on the premises that the line manager has the formal power and that he chooses to share it with his employees. He calls formal power; instead, it distributes that power constitutionally through In any event, participative management can hardly be called democ-

achieve it in more conventional ones seem only to toster more tional democracy. It may work in volunteer organizations, but attempts to So far, we have found little to encourage the proponents of organiza-

search that has shed light on the question. Social psychologists have conducted a number of "communication net" studies in which they have put a Before leaving the subject, we might mention another body of re-

> (In 17 of 20 cases). was that the open-channel networks developed hierarchies by themselves erry enjoyed the task less than did the ones at the center. An unexpected more quickly and made fewer errors, but that their members at the periphfinding, however, at least in one study (Guetzkow and Simon, 1954–55), were expected—for example, that the hierarchical networks organized else (the closest equivalent to democracy); and so on. Many of the results side of them; in some, everyone could communicate freely with everyone they formed a circle and could communicate only with members to either communication, given them simple tasks to perform, and then watched messages through one person (this was the hierarchical one); in others, what happened. In some networks, all the members had to pass their lew subjects (often five) into networks of more or less restricted channels of

indicate: that democratization leads, paradoxically, to centralization. ture to complete its tasks. This, in fact, is exactly what the field studies liable, eventually reverting to a more hierarchical—and centralized—strucvalic one—seems better for morale. But the latter may sometimes be unwork. In contrast, the horizontally decentralized organization—the demoofficient under certain circumstances, particularly at early stages of the decentralization. For one thing, the centralized organization may be more These findings suggest some interesting conclusions about horizontal

and. And here, unfortunately, is where attempts to tamper with the have had the least decision-making power and have been the most alienallons staffed largely with unskilled operators. Here is where the workers links. A laboratory group cannot be asked to design a thermonuclear reac-Iwen focused on automobile plants, tobacco factories, and the like, organiway or another, back to centralization. Note that all the experiments or establishing unrestricted communication channels—all seem to lead, wer system—to make it more democratic—seem to have failed the most with a burning issue in research laboratories or hospitals; the attention has low, let alone deliver a baby. Likewise, organizational democracy has not have taken place in organizations that do simple, repetitive, unskilled Mousion making, instituting rules to delimit the power of their managers, my the workers elect the directors, encouraging them to participate in Altempts to make centralized organizations democratic—whether by hav-So the answer to our question about democracy seems to be negative.

which itself is distributed widely but unevenly. Thus, it seems that, at best, llures power equally. Power follows knowledge in these organizations, How participation was a good thing. And not so widely that every member They distribute their power widely. But not because anyone decided Hume with professional operators, such as research laboratories and hospi-Other organizations come closer to the democratic ideal—namely,

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professional in nature. teer organizations, and then only when it is called for by tasks that are we shall have to settle for meritocracy, not democracy, in our nonvolun-

### **Decentralization in Fives**

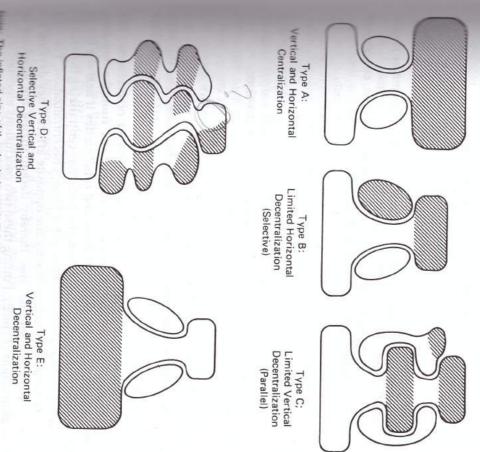
emerge from our discussion. These can, in fact, be placed along a single our logo (where, it should be noted, the inflated size of a shaded part continuum, from centralization in both dimensions at one end to decentral-Five distinct types of vertical and horizontal decentralization seem to represents its special decision-making power, not its size in membership). ization in both at the other. There are shown in Figure 5-4, as distortions of Each of the five types of decentralization is discussed briefly below.

centrated in the hands of a single individual, the manager at the top of the share his power with staffers, middle-line managers, or operators. ing their execution by direct supervision. As such, he has little need to informal power, making all the important decisions himself and coordinat-5-4(a) at the strategic apex. The chief executive retains both formal and line hierarchy—namely, the chief executive officer. Power bulges in Figure Type A: Vertical and Horizontal Centralization Decisional power here is con-

the bureaucratic organization with unskilled tasks that relies on standarddiminishes the importance of direct supervision as a coordinating mechanism the operators, who consequently emerge as rather powerless. Standardization in this organization by formalizing the behavior of the other members, notably in democratization have been concentrated.) The analysts play a leading role ization of work processes for coordination. (Here is where the experiments Type B: Limited Horizontal Decentralization (Selective) In this type we find thereby reducing the power of the middle-line managers as well, particularly at dimension; formal power is concentrated in the upper reaches of the line the lower levels. As a result, the structure is centralized in the vertical some informal power, which means limited horizontal decentralization reverts to the strategic apex by virtue of election procedures.) Because of to the operating core as part of a program of democratization, it immediately hierarchy, notably at the strategic apex. (Should attempts be made to shift if actions serve to reduce the power of the other nonmanagers, notably the Because the analysts are few relative to the other nonmanagers and their their role in formalizing behavior, the analysts are, however, able to gain operators, the horizontal decentralization turns out to be of the most limited at the strategic apex and slightly in the technostructure decisions concerning work formalization. Figure 5-4(b) shows power bulging kind. It is selective, in any event, since the analysts are involved only in the

tion that is divided into market units, or divisions, to whose managers are Type C: Limited Vertical Decentralization (Parallel) Here we find the organiza-

> ners retain some power as well. Thus, Figure 5-4(c) shows the major bulge mance control systems designed in the technostructure, a few high-level plannates their behavior by the standardization of outputs, effected by perforscribed as centralized in the horizontal dimension. Of course, the strategic their power with staff personnel or operators, the organization can be deapex retains ultimate formal power over the divisions. And because it coordinature. Likewise, because the division managers need not necessarily share farther down the chain of authority, the vertical decentralization is limited in concerning their markets. But because that power need be delegated no delegated (in parallel) a good deal of formal power to make the decisions



The inflated size of the shaded parts indicates their special power in decision making, not their size in membership.

Figure 5-4. Five types of decentralization

well up in the middle line and minor ones in the strategic apex and at the top of the technostructure

is delegated to work constellations at various levels of the hierarchy. And together. In the vertical dimension, power for different types of decisions findings about selective decentralization in the two dimensions coming in the horizontal dimension, these constellations make selective use of Type D: Selective Vertical and Horizontal Decentralization Here we see our stellations is effected primarily through mutual adjustment. Power in Fig. good deal of the organization's expertise lies. the support staff (especially as compared with the other four types), where a ure 5-4(d) bulges in various places (corresponding to Figure 5-2), notably in the choices themselves. Coordination within as well as between the conthey join the managers on teams and task forces, sometimes even controlling must make: for some, the experts merely advise the line managers; for others. the staff experts, according to how technical the decisions are that they

centrated largely in the operating core—the only bulge in Figure 5-4(e) because its members are professionals, whose work is coordinated Type E: Vertical and Horizontal Decentralization Decision power here is conmension, since this power rests with a large number of nonmanagers—namebottom of the hierarchy. And it is strongly decentralized in the horizontal dicentralized in the vertical dimension because this power rests at the very largely by the standardization of skills. The organization is strongly detors and the professional associations that control their standards. control over decision processes to the professional schools that train its operabe shown apart, since the organization is forced to surrender a good deal of its ly, the operators. If another power center were to be identified, it would have to

# Decentralization and the other design parameters

seven design parameters has been discussed throughout this chapter; here The relationship between our two forms of decentralization and the other we need merely review these findings briefly.

zation in both dimensions. The result is Type A decentralization. Training and the managers who supervise them and concentrates it near the top of and indoctrination produce exactly the opposite effect: They develop exthe line hierarchy and in the technostructure, thus centralizing the organiformalization of behavior takes formal power away from the operators see that specialization of the unskilled type centralizes the structure in both pertise below the middle line, thereby decentralizing the structure in centralizes it in both dimensions. dimensions, whereas specialization of the skilled or professional type deboth dimensions (Type E). Putting these two conclusions together, we can Decentralization is closely related to the design of positions. The

> structure is possible with almost any degree of decentralization, in either Similarly, Types A and E, at the two ends of our continuum, are often centralized in both dimensions, the second organic—that is, reliant on described as functional. Thus, we are led to the conclusion that functional mutual adjustment—and selectively decentralized in both dimensions. are both typically functional structures, the first bureaucratic and rather definitive conclusion can be drawn for functional grouping. Types B and D tion and the design of the superstructure. The use of market grouping good deal of power rests with the managers of the market units. No such leads to limited vertical decentralization of a parallel nature (Type C): a We have also seen a number of relationships between decentraliza-

contralization (of Type A), or the presence of small autonomous work llon (Type C). Likewise, small unit size may indicate close supervision and market-based grouping, which results in limited vertical decentralizaextensive use of training and indoctrination, in which the structure is dewww.s and selective decentralization (of Type D). contralized in both dimensions (Type E). It may also indicate the presence extensive use of behavior formalization, in which case the structure is nuther centralized in both dimensions (Type B). But it may also reflect loo many other factors intervene. For example, large unit size may reflect The same conclusion can be drawn for unit size, or span of control.

wordinate the work within and between the selectively decentralized work to the liaison devices are used primarily to Type D). and control systems emerge as design parameters to effect modest or exwhich results in Type B decentralization. In general, therefore, planning slows, although it must surrender some of its power to the staff planners, smables the strategic apex to control the important organizational deciware related to limited vertical decentralization (Type C). Action planning witems are used primarily to control quasi-autonomous market units, and As for the lateral linkages, we have seen that performance control

## hwentralization by part of the organization

We have so far had little difficulty discussing each of the other design wo kinds of decentralization, since the distribution of power is an organimanuters by part of the organization. The same will not be true for the Monwide phenomenon. Nevertheless, some conclusions can be drawn.

metimes selectively, sometimes in parallel; and in still other cases, power he apex, in others, it is delegated to various levels in the middle line, that is, the strategic apex and middle line. And here all kinds of allorus are possible. In some organizations, power remains at the strate-By definition, vertical decentralization involves only the chain of au-

patterns continue to dominate organizational power systems. That is, foroperating core. If one generalization is in order, it is that classic authority à-vis the informal, still matters a great deal in organizations. Thus, structhe hierarchy. From there it is delegated at his will. And formal power, vismal power resides in the first instance with the chief executive at the top of passes right to the bottom of the middle line, and perhaps beyond, to the tal dimension than their situations call for. In other words, there may be a tures may tend to be more centralized in the vertical as well as the horizontendency to retain somewhat more power than is necessary in the line

operating cores to dominant ones. But one point is clear. All have informal distributions, from negligible staff groups to powerful ones, from weak ing core—into the power system. Again, we have seen all kinds of power parts of the organization-the technostructure, support staff, and operatstructure, especially at the strategic apex. when they perform jobs based on complex knowledge and skills. As a final execute managerial decisions and when they are professionals—that is, sions; operators accumulate power when they have the expertise needed to just advise when they have the knowledge needed to make technical decipower to the extent that they contain expertise. Staff groups do more than specialists themselves. to find a good deal of decentralization, from the staff managers to the staff support units, where the work is essentially professional, we would expect point, we might note that within the technocratic units and the higher-level Horizontal decentralization, by definition, brings the other three

strongly influenced by the design of the decision-making system—that is, into units, which creates the hierarchy of managerial positions. It is also effected through the design of the superstructure, notably the grouping relation of each to the coordinating mechanisms. Direct supervision is have seen the various forms each can take in the structure as well as the of skills through the establishment of training and indoctrination processes is achieved through the formalization of behavior, standardization by horizontal and vertical decentralization. Standardization of work programs, and standardization of outputs through the use of planning and control systems. Finally, mutual adjustment is encouraged by the use of We have now discussed our design parameters in some detail. We

ior through the use of on-the-job rules; it seldom does a great deal of both an organization may rely on prejob training or else it may formalize behavamong the design parameters. Some are mutually exclusive. For example the liaison devices. Other design parameters are clearly used concurrently—for example, performance control systems and market-based grouping, or the liaison de We have also begun to see some fundamental interrelationships

> organization's situation. this clustering, we must put our design parameters into the context of the understanding the structuring of organizations. But before we can discuss parameters, not the interacting of any two, that seems to hold the key to of indication that it is the clustering or configuring of many of these design vices and organic structure. But more important, we have seen a good deal