The utility of the notions of “mechanistic” and “organic” management systems resides largely in their being related as dependent variables to the rate of “environmental” change. “Environmental,” in this connection, refers to the technological basis of production and to the market situation. . . . The increasing rate of technological change characteristic of the last generation could plausibly be regarded as a function of fundamental changes in the relationship of production to consumption.

If the form of management is properly to be seen as dependent on the situation the concern is trying to meet, it follows that there is no single set of principles for “good organization,” an ideal type of management system which can serve as a model to which administrative practice should, or could in time, approximate. It follows also that there is an overriding management task in first interpreting correctly the market and technological situation, in terms of its instability or of the rate at which conditions are changing, and then designing the management system appropriate to the conditions, and making it work. “Direction,” as I have labelled this activity, is the distinctive task of managers-in-chief. . . .

For the individual, much of the importance of the difference between mechanistic and organic systems lies in the extent of his commitment to the working organization. Mechanistic systems (namely “bureaucracies”) define his functions, together with the methods, responsibilities, and powers appropriate to them; in other words, however, this means that boundaries are set. That is to say, in being told what he has to attend to, and how, he is also told what he does not have to bother with, what is not his affair, what is not expected of him, what he can post

elsewhere as the responsibility of others. In organic systems, the boundaries of feasible demands on the individual disappear. The greatest stress is placed on his regarding himself as fully implicated in the discharge of any task appearing over his horizon, as involved not merely in the exercise of a special competence but in commitment to the success of the concern's undertakings approximating somewhat to that of the doctor or scientist in the discharge of his professional functions.

Mechanistic and Organic Systems

We are now at the point at which we may set down the outline of the two management systems which represent for us . . . the two polar extremities of the forms which such systems can take when they are adapted to a specific rate of technical and commercial change. The case we have tried to establish from the literature, as from our research experience . . . , is that the different forms assumed by a working organization do exist objectively and are not merely interpretations offered by observers of different schools.

Both types represent a “rational” form of organization, in that they may both, in our experience, be explicitly and deliberately created and maintained to exploit the human resources of a concern in the most efficient manner feasible in the circumstances of the concern. Not surprisingly, however, each exhibits characteristics which have been hitherto associated with different kinds of interpretation. For it is our contention that empirical findings have usually been classified according to sociological ideology rather than according to the functional specificity of the working organization to its task and the conditions confronting it.

We have tried to argue that these are two formally contrasted forms of management system. These we shall call the mechanistic and organic form.

A mechanistic management system is appropriate to stable conditions. It is characterized by:

1. The specialized differentiation of functional tasks into which the problems and tasks facing the concern as a whole are broken down.

2. The abstract nature of each individual task, which is pursued with techniques and purposes more or less distinct from those of the concern as a whole (i.e., the functionaries tend to pursue the technical improvement of means, rather than the accomplishment of the ends of the concern).

3. The reconciliation, for each level in the hierarchy, of these distinct performances by the immediate superiors, who are also, in turn, responsible for seeing that each is relevant in his own special part of the task.

4. The precise definition of rights and obligations and technical methods attached to each functional role.

5. The translation of rights and obligations and methods into the responsibilities of a functional position.
6. Hierarchic structure of control, authority, and communication.

7. A reinforcement of the hierarchic structure by the location of knowledge of actualities exclusively at the top of the hierarchy, where the final reconciliation of distinct tasks and assessment of relevance is made.

8. A tendency for interaction between members of the concern to be vertical (i.e., between superior and subordinate).

9. A tendency for operations and working behavior to be governed by the instructions and decisions issued by superiors.

10. Insistence on loyalty to the concern and obedience to superiors as a condition of membership.

11. A greater importance and prestige attaching to internal (local) than to general (cosmopolitan) knowledge, experience, and skill.

The organic form is appropriate to changing conditions, which give rise constantly to fresh problems and unforeseen requirements for action which cannot be broken down or distributed automatically arising from the functional roles defined within a hierarchic structure. It is characterized by:

1. The contributive nature of special knowledge and experience to the common task of the concern.

2. The “realistic” nature of the individual task, which is seen as set by the total situation of the concern.

3. The adjustment and continual re-definition of individual tasks through interaction with others.

4. The shedding of “responsibility” as a limited field of rights, obligations, and methods. (Problems may not be posted upwards, downwards, or sideways as being someone else’s responsibility.)

5. The spread of commitment to concern beyond any technical definition.

6. A network structure of control, authority, and communication. The sanctions which apply to the individual’s conduct in his working role derive more from presumed community of interest with the rest of the working organization in the survival and growth of the firm, and less from a contractual relationship between himself and a nonpersonal corporation, represented for him by an immediate superior.

7. Omniscience no longer imputed to the head of the concern; knowledge about the technical or commercial nature of the here and now task may be located anywhere in the network; this location becoming the ad hoc center of control authority and communication.
8. A lateral rather than a vertical direction of communication through the organization, communication between people of different rank, also, resembling consultation rather than command.

9. A content of communication which consists of information and advice rather than instructions and decisions.

10. Commitment to the concern’s tasks and to the “technological ethos” of material progress and expansion is more highly valued than loyalty and obedience.

11. Importance and prestige attach to affiliations and expertise valid in the industrial and technical and commercial milieux external to the firm.

One important corollary to be attached to this account is that while organic systems are not hierarchic in the same sense as are mechanistic, they remain stratified. Positions are differentiated according to seniority (i.e., greater expertise). The lead in joint decisions is frequently taken by seniors, but it is an essential presumption of the organic system that the lead (i.e., “authority,”) is taken by whoever shows himself most informed and capable (i.e., the “best authority”). The location of authority is settled by consensus.

A second observation is that the area of commitment to the concern—the extent to which the individual yields himself as a resource to be used by the working organization—is far more extensive in organic than in mechanistic systems. Commitment, in fact, is expected to approach that of the professional scientist to his work, and frequently does. One further consequence of this is that it becomes far less feasible to distinguish “informal” from “formal” organization.

Thirdly, the emptying out of significance from the hierarchic command system, by which cooperation is ensured and which serves to monitor the working organization under a mechanistic system, is encountered by the development of shared beliefs about the values and goals of the concern. The growth and accretion of institutionalized values, beliefs, and conduct, in the forms of commitments, ideology, and manners, around an image of the concern in its industrial and commercial setting make good the loss of formal structure.

Finally, the two forms of system represent a polarity, not a dichotomy; there are . . . intermediate stages between the extremities empirically known to us. Also, the relation of one form to the other is elastic, so that a concern oscillating between relative stability and relative change may also oscillate between the two forms. A concern may (and frequently does) operate with a management system which includes both types.

The organic form, by departing from the familiar clarity and fixity of the hierarchic structure, is often experienced by the individual manager as an uneasy, embarrassed, or chronically anxious quest for knowledge about what he should be doing, or what is expected of him, and similar apprehensiveness about what others are doing. Indeed . . . , this kind of response is necessary if the organic form of organization is to work effectively. Understandably, such anxiety finds expression in resentment when the apparent confusion besetting him is not explained. In these
situations, all managers some of the time, and many managers all the time, yearn
for more definition and structure.

On the other hand, some managers recognize a rationale of nondefinition, a rea-
soned basis for the practice of those successful firms in which designation of status,
function, and line of responsibility and authority has been vague or even avoided.
The desire for more definition is often in effect a wish to have the limits of one’s
task more neatly defined—to know what and when one doesn’t have to bother
about as much as to know what one does have to. It follows that the more defini-
tion is given, the more omniscient the management must be, so that no functions
are left wholly or partly undischarged, no person is overburdened with undelegated
responsibility, or left without the authority to do his job properly. To do this, to
have all the separate functions attached to individual roles fitting together and
comprehensively, to have communication between persons constantly maintained
on a level adequate to the needs of each functional role, requires rules or traditions
of behavior proved over a long time and an equally fixed, stable task. The omni-
science which may then be credited to the head of the concern is expressed
throughout its body through the lines of command, extending in a clear, explicitly
titled hierarchy of officers and subordinates.
The whole mechanistic form is instinct with this twofold principle of definition
and dependence which acts as the frame within which action is conceived and car-
rried out. It works, unconsciously, almost in the smallest minutiae of daily activity.
“How late is late?” The answer to this question is not to be found in the rule book,
but in the superior. Late is when the boss thinks it is late. Is he the kind of man who
thinks 8:00 is the time . . . ? Does he think that 8:15 is all right occasionally if it is
not a regular thing? Does he think that everyone should be allowed a 5-minutes
grace after 8:00 but after that they are late?

Settling questions about how a person’s job is to be done in this way is never-
theless simple, direct, and economical of effort . . .

One other feature of mechanistic organization needs emphasis. It is a necessary
condition of its operation that the individual “works on his own,” functionally iso-
lated; he “knows his job,” he is “responsible for seeing it’s done.” He works at a job
which is in a sense artificially abstracted from the realities of the situation the con-
cern is dealing with, the accountant “dealing with the costs side,” the works man-
ger “pushing production,” and so on. As this works out in practice, the rest of the
organization becomes part of the problem situation the individual has to deal with
in order to perform successfully (i.e., difficulties and problems arising from work
or information which has been handed over the “responsibility barrier” between
two jobs or departments are regarded as “really” the responsibility of the person
from whom they were received). As a design engineer put it, “When you get design-
ners handing over designs completely to production, it’s their responsibility now.
And you get tennis games played with the responsibility for anything that goes
wrong. What happens is that you’re constantly getting unsuspected faults arising
from characteristics which you didn’t think important in the design. If you get to hear
of these through a sales person, or a production person or somebody to whom the
design was handed over to in the dim past, then, instead of being a design problem, it’s
an annoyance caused by that particular person, who can’t do his own job—because
you'd thought you were finished with that one, and you're on to something else now."

When the assumptions of the form of organization make for preoccupation with specialized tasks, the chances of career success, or of greater influence, depend rather on the relative importance which may be attached to each special function by the superior whose task it is to reconcile and control a number of them. And, indeed, to press the claims of one's job or department for a bigger share of the firm's resources is in many cases regarded as a mark of initiative, of effectiveness, and even of "loyalty to the firm's interests." The state of affairs thus engendered squares with the role of the superior, the man who can see the wood instead of just the trees, and gives it the reinforcement of the aloof detachment belonging to a court of appeal. The ordinary relationship prevailing between individual managers "in charge of" different functions is one of rivalry, a rivalry which may be rendered innocuous to the persons involved by personal friendship or the norms of sociability, but which turns discussion about the situations which constitute the real problems of the concern—how to make products more cheaply, how to sell more, how to allocate resources, whether to curtail activity in one sector, whether to risk expansion in another, and so on—into an arena of conflicting interests.

The distinctive feature of the second, organic system is the pervasiveness of the working organization as an institution. In concrete terms, this makes itself felt in preparedness to combine with others in serving the general aims of the concern. Proportionately to the rate and extent of change, the less can the omniscience appropriate to command organizations be ascribed to the head of the organization; for executives, and even operatives, in a changing firm it is always theirs to reason why. Furthermore, the less definition can be given to status, roles, and modes of communication, the more do the activities of each member of the organization become determined by the real tasks of the firm as he sees them than by instruction and routine. The individual's job ceases to be self-contained; the only way in which "his" job can be done is by his participating continually with others in the solution of problems which are real to the firm, and put in a language of requirements and activities meaningful to them all. Such methods of working put much heavier demands on the individual.

We have endeavored to stress the appropriateness of each system to its own specific set of conditions. Equally, we desire to avoid the suggestion that either system is superior under all circumstances to the other. In particular, nothing in our experience justifies the assumption that mechanistic systems should be superseded by organic in conditions of stability. The beginning of administrative wisdom is the awareness that there is no optimum type of management system.