# "A STUDY OF LEADERSHIP BEHAVIOUR IN TURKISH PRIVATE AND PUBLIC SECTOR ...

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# FOR REFERENCE

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JOT TO BE LAKEN FROM THIS ROOM

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#### INTRODUCTION

The study is undertaken to provide a review of major leadership styles and techniques from a theoretical perspective, on the one hand, and a survey of managers from public and private sectors to determine the style of leadership they exercise on the other.

In Part One a theoretical survey of leadership theory is provided to set the background. No evaluative comparison is made in this section. The choice of the "leadership's styles" approch as the focus of this study is not based on any such theoretical comparison but on the writer's interest to learn more about the theory and practical extensions of this approach. Hence a more detailed study of the Michigan approach is offered.

Part Two describes the survey conducted and the findings thereof. It is realized that the limited scope of the sample render the results less scientific and less generalizeable than desired. However, financial, time and language barriers were formitable constraints.

It is hoped that this work will be useful as an adept summary of theory and a pioneering attempt to measuring leadership styles of Turkish managers.





#### PART ONE

#### THEORETICAL BACKGROUND

The process of directing people in organizations has always been considered vital to effective management. It is generally recognized that leadership can spell the difference between success and failure, whether in a war, in a basketball game, or especially in attaining the goals of an organization. Yet despite this recognized importance, the characteristics of a good leader still partly remains a mystery. Good leadership is known to exist and have a tremendous influence on organizational performance, but the inner workings and specific traits of an effective leader cannot be presicely spelled out.

The idea that leadership is a synonym for management is not completely valid. Leadership is a narrower concept than management. A manager in a formal organization is responsible and entrusted to perform such functions as planning, organizing, and controlling. However, leaders also exist in informal groups. Informal leaders are not always formal managers performing managerial functions which are required by the organization. Consequently, leaders are only in some instances actually managers.

In the formal organization, roles often have specific responsibilities associated with them. Exactly how the supervisor fulfils the responsibilities involves the occupant's style. Some first line supervisors rely

on the authority of the position to secure compliance with performance standards, while others use a more participate approach which involves joint decision making on the part of the leader (manager) and followers (subordinates).

A hierarchical of roles also exists in informal groups. The informal leader is accepted as the person to carry out the duties of the position. Once again, how the leader brings about compliance from followers will largely depend on the leadership style used. What is effective for one leader may not be for another. This, in essence is the crux of the leadership issue:

"What makes for effective leadership?"

There is no simple or single answer to this important question. Two important considerations involve power and acceptance by followers.

Generally, power includes the personal and positional attributes that are the basis for a leader's ability to influence others. In managerial terms, power involves the ability to mobilize resources, to get and use whatever it is that people need for the goals that they are attempting to accomplish. It is important to note that power involves personal and positional attributes to influence roles, processes, and/or things, while the concept of authority involves the use primarily of position-related power. It is the formal power granted to a person by the organization.

Power in an organization is largely a function of being in the right place, at the right time, with the right resources, and working efficiently. Position in the organization, workflow, or communications network all involve the notion of place.

In work organizations, the ability to influence, persuade, and motivate followers, in addition to place, timing, information access, and efficiency, is also based upon the perceived power of the leader. French and Raven identify forms of perceived power a leader may possess as follows:

Coercive	power based upon fear. A follower
	perceives that failing to comply
	with the request initiated by a
	leader could result in some form of
	punishment: a reprimand or social
	ostracism from a group.
Reward	power based upon the expectation
	of receiving praise, recognition,
	or income for compliance with a
	leader's request.
Legitimate	power derived from an individual's
	position in the group or organiza-
	tional hierarchy. In a formal
	organization, the first line
	supervisor is perceived to have
	more power than operating employers

In the informal group, the leader is recognized by the members as having legitimate power. Power based upon a special skill, EXPERT expertise, or knowledge. The followers perceive the person as having relevant expertise and believe that it exceeds their own. power based on attractiveness and REFERENT appeal. A leader who is admired because of certain traits possesses referent power. This form of power is particularly referred to as charisma. The person is said to have charisma to inspire and attract

Power in organization is a Two-way phenomenon flowing from one individual (leader) to other people (subordinates) and back. Zaleznik, a consultant and organizational researcher, assumes that power is inevitable in organizations. He states:

followers.

"Whatever else organization may be ... there are political structures. This means that organizations operate by distributing authority and setting a stage for the exercise of power. It is no wonder, therefore, that individuals who are highly motivated to secure and use power find a similar and hospitable environment in

business."

Since power and politics are used in organizations, it is important for managers to understand the manner in which both are applied. Individuals do not like to have power used on them. The use of expert and referent power is mot usually restricted by subordinates or followers. However, when coercive power is used, there is often some resistance. Furthermore, it is important to understand that people seek power through such political maneuverings as joining ranks with individuals with power, developing expertise in an importance field or area, controlling crucial information, displaying loyalty and committment, and making the immediate superior look good.

Figure I summarizes the key sources and perceived basis of power. It also presents some of the possible moderating factors between the sources and perceived basis of power and outcomes (goals). The model suggests that:

- (1) a successful leader is one who is aware of the sources of power and the importance of perceived power.
- (2) the accomplishment of goals will depend not only on power sources and perceptions but also on follower needs, the situation, and experience of the leader.

## REFERENCES

"Introduction to Management: A Contingency Approach"
 by Fred Luthans. Publishers: McGraw-Hill, 1978.

POWER	ΟF	SOURCES	AND			
PERCEPTIONS						

# SOURCES OF LEADER POWER

- . place
- . timing
- . information
- . efficiency

#### PERCEIVED POWER TYPES

- . legitimate
- . Reward
- . expert
- . referent

Leader

POSSIBLE MODERATING FACTORS

- . The leader's style and experience
- . The followers needs and experience
- . The situation

GOALS: OUTCOMES

Performance

(organizational and

individual)

Satisfaction

(individual)

Leaders, followers

situational

Source: "Organizations" by Gibson, Ivancevich, Donnelly. Fourth Edition 1982
Publishers: Business Publications, Inc., Plano, Texas.

- pp. 126. "The process of directing people" ... to effective management".
- pp. 126-127. "It is generally recognized ... cannot be precisely spelled out."
- 2. "Organizations" by Gibson, Ivancevich, Donnelly. Fourth edition, 1982. Publishers: Business Publications, Inc. Plano, Texas 75075 Irwin-Dorsey Limited Georgetown, Ontario L764B3.
  - - "Exactly how the supervisor ... joint decision making on part of the leader and followers."

      "A hierarchy of roles ... to this important question".
    - "Generally, power involves ... to accomplish them".
  - pp. 231 "It is important to note ... granted to a person by the organization."
    - "Power is an organization ... notion of place".
  - pp. 232 "In the work organizations .... The person is said to have charisma to inspire and attract followers."
  - pp. 233-234-235 "Power in organization ... to other

    people and back."

    Zaleznik, a consultant and organiza-

tional. Researcher, ... and making the immediate superior look good."

#### (A) LEADERSHIP THEORY, STYLES AND TECHNIQUES

Leadership has long been a focus of theorists, researchers, and practitioners. Neverthless, it appears that despite numerous theories and research studies of leadership, there is no universally accepted approach. Effective leadership is necessary for organizational effectiveness and that the performance of employees is typically poorer when it is absent.

Contingency theory of management and organizations is the modern theory on leadership behaviour.

However, other theories are also important and have some element of truth in them. Consequently, contingency theory is discussed first followed by other theories.

(a) CONTINGENCY THEORY OF MANAGEMENT AND ORGANIZATIONS

# CONTINGENCY VIEWS OF ORGANIZATIONS

Systems concepts provide the broad framework for understanding organizations. One of the consequences of this approach is a rejection of simplistic statements concerning universal principles of organization design and management practice. Modern organization theory reflects a search for patterns of relationships, congruencies among subsytems, and a contingency view.

Systems concepts provide us with a macro paradigm for the study of organizations, but they involve a relatively high degree of generalization. Contingency views tend to be more concrete and to emphasize more

characteristics and patterns of interrelationships among subsystems. This trend toward more explicitly understanding of relationships among organizational variables is essential if the theory is to facilitate and improve management practice.

Using the systems perspective, we can describe the contingency view of organizations as follows:

"The contingency view of organizations and their management suggests that an organization is a system composed of subsystems and delineated by identifiable boundaries from its environmental suprasystem. The contingency view seeks to understand the interrelation—ships within and among subsystems as well as between the organizations and its environment and to define patterns of relationships or configurations of variables. It emphasizes the multivariate nature of organizations under varying conditions and in specific circumstances. Contingency views are ultimately directed toward suggesting organizational designs and managerial actions nost appropriate for specific situations."

Systems concepts are directed toward providing a broad model for understanding all organizations.

Contingency views recognize that the environment and internal subsystems of each organization are somewhat unique and provide a basis for designing and managing specific organizations. Contingency views represent a middle ground between

- (1) The view that there are universal principles of organization and management
- (2) The view that each organization is unique and that each situation must be analyzed separately.

An underlying assumption of the contingency view is that there should be a congruence between the organization and its environment and among the various subsystems. The primary managerial role is to maximize this congruence. The appropriate fit between the organization and its environment and the appropriate internal organization design will lead to greater effectiveness, efficiency, and participant satisfaction.

The contingency view suggests that there are appropriate patterns of relationships for different types of organizations and that we can improve our understanding of how these relevant variables interact. Contingency analysis thus may lead us to general conclusions about these patterns of relationships, such as:

The stable mechanistic organization form is more appropriate when:

- (1) The environment is relatively stable and certain:
- (2) The goals are well defined and enduring.
- (3) The technology is relatively uniform and stable.
- (4) There are routine activities and productivity is the major objective.
- (5) Decision making is programmable and coordination and control processes tend to make a tightly structured,

hierarchical system possible.

The adoptive-organic organizational form is more appropriate when:

- (1) The environment is relatively uncertain and turbulent.
- (2) The goals are diverse and changing.
- (3) The technology is complex and dynamic.
- (4) There are many nonroutine activities in which creativity and innovation are important.
- (5) Heuristic decision-making processes are utilized and coordination and control occur through reciprocal adjustments. The system is less hierachical and more flexible.

#### CONTINGENCY VIEWS OF MANAGEMENT

Nothing the multivariate nature of organizations, it is no wonder that managers often say,

"The theory may be appropriate in general, but our organization is different."

The trust of contingency views of management practice is to offset such claims by providing appropriate guidelines for action. Contingency views recognize both similarities and differences among organizations but still emphasize that the primary managerial role is to seek congruence between the organization and its environment and among its various subsystems. Systems and contingency concepts facilitate more through understanding of complex situations and increase the likeli-

hood of appropriate managerial actions.

Although we think that some managers have utilized these concepts intuitively, most have not.

Application of contingency concepts requires increased understanding and sophistication on the part of managers.

According to Denis J. Moberg and James L. Koch (A critical appraisal of integrated treatment of contingency findings),

"An applier of contingency views must recognize more and different kinds of goals and needs for his organization, consider more factors bearing on a decision, employ a wider variety of ways of making and carrying out decisions, and evaluate decisions not on a one-by-one basis, but in relation to each other.

Therefore, practioners must be aware that they must learn new approaches in solving organizational problems if they choose to use contingency views."

Systems concepts and contingency views cannot provide general principles for managing all organizations, but they can provide important guidelines for organizational diagnosis and managerial actions in specific situations.

Source (1) "Organization" by Gibson, Ivancevich, Donnelly.

Fourth edition 1982. <u>Publishers</u>: Business

Publications, Inc., Plano, Texas. pp.

"Leadership has long been .... when it is

absent".

- (2) "ORGANIZATION AND MANAGEMENT": A System and Contingency Approach" by Fremont E.

  Kast and James E. Rosenzweig. Third edition.

  Publishers: McGraw-Hill Kogakuska, Ltd.
- pp. 115-116 "Systems concepts provide the broad framework .... of how these relevant variables interact.
  - "Contingency analysis thus may lead us to .... The system is less hierarchical and more flexible".
- pp. 118 "Noting the multivariate nature of organizations ... organizational problems , if they choose to use contingency views".

#### (b) TRAIT THEORIES

Much of the early work on leadership focused on identifying the traits of effective leaders. This approach was based on the assumption that a finite number of individual traits of effective leaders could be found. Thus, most research was designed to identify intellectual, emotional, physical, and other personal characteristics of successful leaders. The personnel testing component of scientific management supported to a significant extent the trait theory of leadership. Besides personnel testing, the traits of leaders have been studied by observing behaviour in group situations, choice of associates (voting), and by analysis of biographical data.

Among some of the traits studied most frequently were;

- (1) Intelligence
- (2) Personality
- (3) Physical characteristics
- (4) Supervisory ability

## (I) <u>INTELLIGENCE</u>

In a view of 33 studies, Stogdill found that there is a general trend which indicates that leaders are more intelligent than followers. One of the most significant findings is that extreme intelligence differences between leaders and followers may be

dysfunctional.

#### (2) PERSONALITY:

Some research results suggest that such personality traits as alertness, originality, personal integrity, and self-confidence are associated with effective leadership. Ghiselli reported several personality traits which tend to be associated with leader effectiveness. For example, he found that initiate and the ability to act and initiate action independently were related to the level in the organizations of the respondent. The higher the person went in the organization the more important this trait become. He also found that selfassurance was related to the hierachical position in the organization. Finally, he found that individuals who exhibited individuality were the most effective leaders. Some writers argue that personality is unrelated to leadership. This view is too harsh if we consider how personality has been found to be related to perception, attitudes, learning, and motivation. The problem is finding valid ways to measure personality atraits. This goal has been difficult to achieve, but some progress, although slow, is being made.

## (3) PHYSICAL CHARACTERISTICS

Studies of the relationship between effective leadership and physical characteristics such as age,

height, weight, and appearance provide contradictory results. Being taller and heavier than the average of the group is certainly not advantageous for achieving a leader position. However, many organizations believe that it requires a physical large person to secure compliance from followers. This notion relies heavily on the coercive or fear basis of power. On the other hand, Truman, Gandhi, Napoleon, and Stalin are examples of individuals of small stature who rose to the positions of leadership.

### (4) SUPERVISORY ABILITY

Using the leader's performance ratings, Ghiselli found a positive relationship between a person's supervisory ability and level in the organizational hierarchy. The supervisory's ability is defined as the

"effective utilization of whatever supervisory's practices are indicated by the particular requirements of the situation."

Once again, a measurement of the concept is needed and this 's difficult problem to resolve.

## SHORT COMINGS OF TRAIT THEORIES:

Although some traits appear to differentiate effective and ineffective leaders, there still exist many contradictory research findings. There are a number of possible reasons for the disappointing results.

- (1) The list of the potentially important traits is endless. Every year new traits, such as the sign under which a person is born, handwriting style, and order of birth are added to personality, physical characteristics, and intelligence. This continual "adding on" results in more confusion among those interested in identifying leadership traits.
- (2) Trait test scores are not consistently predictive of leader effectiveness. Traits do not operate singly, but in combination, to influence followers. This interaction influences the leader-follower relationship.
- (3) The patterns of effective behaviour depend largely on the situation. The leadership behaviour which is effective in a bank may be ineffective in a laboratory.
- (4) The traits approach does not provide insight into what the effective leader does on the job. Observations are needed that describe the behaviour of effective and ineffective leaders.

#### CONCLUSION

Despite these short-comings the trait approach is not completely invalid. Stogdill concisely captures the value of trait approach in the following statement.

" .... the wiew that leadership is entirely situational in origin and that no personal characteristics are predictive of leadership .... seems to overemphasize the situational and underemphasizing the personal nature of

leadership."

Source: "Organizations" by Gibson, Ivancevich, Donnelly.

Fourt edition 1982. <u>Publishers</u>: Business

Publications Inc. Plano, Texas. 75075 Irwin
Dorsey Limited Georgetown, Ontario L7G 4B3.

pp. 235, 236, and 237. "Much of the early work on leadership .... The situational and underemphasize the personal nature of leadership."

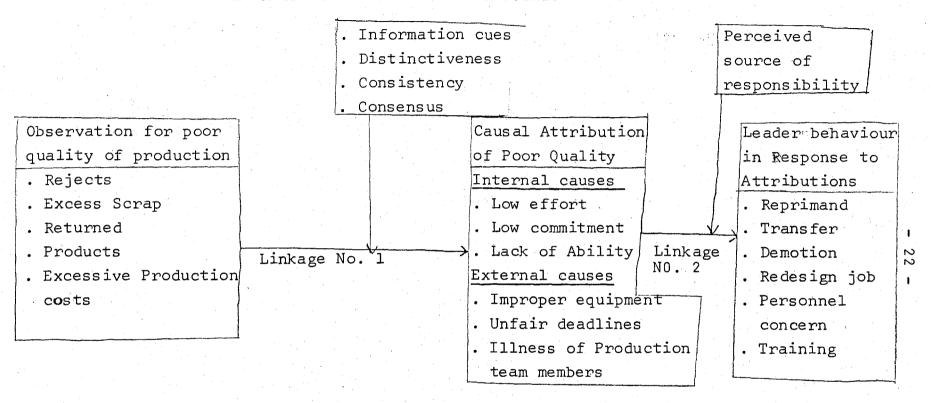
#### (c) ATTRIBUTION THEORY OF LEADERSHIP

Attribution theory suggests that understanding and predicting how people will react to events around them is enchanced by knowing what their causal explanation for those events are. Kelly stresses that it is mainly concerned with the cognitive processes by which a person interprets behaviour as being caused by (or attributed to) certain cues in the relevant environment. The emphasis of attributes leadership theory is on "why" some behaviour has occurred. Most causes of subordinate or follower behaviours are not directly observable, therefore to determine causes requires reliance on perception. In attribution theory individuals are assumed to be rational and concerned about the causal linkages in their environment.

The attributional approach starts with the position that the leader is essentially an information processor. In other words the leader is searching for informational cues that explains "why" something is happening. From these cues leaders attempt to construct causal explanations that guide his or her leadership behaviour. The process in simple terms appears to be follower behaviour leader attributions leader behaviour.

Two important linkages are emphasized in Figure II. At the first linkage point the leader attempts to make an attribution about poor qualify performance. These

FIGURE II
AN ATTRIBUTION MODEL OF LEADERSHIP



Source: Adapted from Terence R. Mitchell and Robert E. Wood, "An empirical test of an Attribution Model of Leaders Responses to Poor Performance," in Richard C. Huseman, ed, Academy of Management Proceedings, 1979, p. 94.

distinctiveness, consistency, and consensus.

The second linkage point suggests that the leader's behaviour or response is determined by the type of attributions he or she makes. The relationship between attribution and leader behaviour is moderated by the leaders perception of responsibility.

#### CONCLUSION

Attribution theory appears to offer a framework for explaining leader behaviour in more insightful terms than behavioral theories. It attemtps to explain why behaviours are happening. The trait and personal behaviour theories are more descriptive and do not focus on the why issue. Furthermore, attributional theory can offer some predictions about a leader's response to a follower's behaviour.

Currently, the research support for attributional theory of leadership is limited.

SOURCES: "ORGANIZATIONS" by Gibson, Ivancevich, Donnelly.

Fourt edition, 1982. <u>Publishers</u>: Business

Publications Inc. Plano, Texas 75075 Irwin
Dorsey Limited Georgetown, Ontario L7G 4B3

pp. 244, 246. "Attribution theory suggests that under
standing and predicting .... The process

in simple terms appears to be follower

			behaviour leader attributions						
	.1.4		leader be	ehaviour	. 11				٠.
pp.	247.	"Two	important	linkage	s are	emphas:	ized	• • • •	
		bu t	the leaden	to pance	ntion	of nect	oneihi	1 i + 1/11	

#### (d) UNIVERSITALIST "PERSONAL-BEHAVIORAL" THEORIES

A number of theorists argue for the use of a particular style to bring about high performance levels in areas such as production and satisfaction. The style, or personal approaches that have been the most widely used in practice are based on Research conducted at the University of Michigan, the Ohio State, and by Blake and Mouton. These approaches have been widely publicized, researched, and applied in organizational settings. Each of the approaches attempts to identify what leaders do when leading.

# (i) THE OHIO STATE STUDIES: INITIATING STRUCTURE AND CONSIDERATION

Among the several large research programs on leadership that developed after World War II, one of the most significant was Ohio's State's, which resulted in a two factor theory of leadership. These studies isolated two leadership factors referred to as initiating structure and consideration. The definition of these factors are as follows:

<u>Initiating structure</u> involves behaviour in which the leader organizes and defines the relationship in the group, tends to establish well-defined patterns and channels of communication, and spells out ways of getting the job done.

Consideration involves behaviour indicating friendship, mutual trust, respect, warmth, and rapport between the leader and followers.

These dimensions are measured by 2 separate questionnaires. The leadership opinion questionnaire (LOQ) attempts to assess how leaders think they behave in leadership roles. The leader behaviour description questionnaire (LBDQ) measures the perception of subordinates, peers, or superiors.

The initiating structure and consideration scores derived from the responses to the questionnaires provide a way to measure leadership style.

Since the original research undertaken to develop the questionnaire, there have been numerous studies of the relationship of these 2 leadership dimensions and various effectiveness criteria. Many of the early results stimulated the generalization that leaders above average in both consideration and initiating structure were more effective. In a study at International Harvester, however, the researchers began to find some more complicated interpretations of the 2 dimensions. In a study of supervisors, it was found that those scoring higher on structure had higher proficiency ratings (ratings received from superiors), but also had more employee grievances. The higher consideration score was related to lower proficiency ratings and lower absences.

A study of Research and development departments introduced the issue of organizational climate to the leadership-effectiveness question. The focus of this study was research, development, and engineering personnel in 3 large organizations: a petroleum refinery, a business machine manufacturer, and an air frame manufacturer. The results indicated that leadership behaviour had differential effects on employee satisfaction depending upon different organizational climates.

This study also found positive relationships between initiating structure and satisfaction. These relationships were weakest in the highly structured air frame company. Perhaps these results are explained by the fact that the air frame company is already highly structured and the leader initiating more structure is engaging in an effort which is not required.

The Ohio State Personnel-behavioral theory has been criticized because of simplicity, lack of general-izability, and reliance on questionnaire responses to measure leadership effectiveness. The critique of Korman is perhaps the most publicized. He has criticized the Ohio State research on leadership in the following manner:

(1) The researchers have made little attempt to conceptualize situational variables and their influence on leadership behaviour.

- (2) Most of the research studies yield generally insignificant correlation between leader behaviour measures and effectiveness criteria.
- (3) The theory has not provided any answer to the question to causality.

Some of the problems have been partially corrected. For example, it has been pointed out in recent research that many variables affect the relationship between leadership behaviour and organizational effectiveness. Some of these include employee experience, competence, job knowledge, expectations for leader behaviour, the upward influence of the leaders, degree of autonomy, role crality, and urgency of time.

- SOURCE: "Organizations" by Gibson, Ivancevich, Donnelly.

  Fourth edition, 1982. <u>Published by</u>: Business

  Publication Inc., Plano, Texas 75075 Irwin
  Dorsey Limited Georgetown, Ontario L7G 4B3.
- pp. 238 A number of theorists argue .... to identify what leaders do when leading"
- pp. 240-241 "Among several large research programs ....

  proeficiency ratings and lower absences"

  pp. 242.

# (ii) MANAGERIAL GRID: CONCERN FOR PEOPLE AND CONCERN FOR PRODUCTION

The conceptual framework for the managerial grid assumes that there is an unnecessary dichotomy in the minds of most leaders about the concern for people and concern for production. It is Blake and Mouton's assumption that people and production concerns are complementary, rather than mutually exclusive. They further believe that leaders must integrate these concerns to achieve effective performance results.

The thoughts of <u>Blake and Mouton</u> resulted in development of the grid chart. An example of the managerial grid is provided in Figure II. The 9, 1 leader is primarily concerned with production task accomplishment and has little, if any, concern for people. The 1, 9 style reflects a minimal concern for production coupled with a maximal concern for people. The 1, 1 style reflects minimal concern for both people and production. The 5, 5 style reflects a moderate concern for both. 9, 9 style is viewed as the ideal approach for integrating a maximum concern for production with a maximum concern for people.

According to <u>Blake and Mouton</u>, the grid enables leaders to identify their own leadership styles. Furthermore, it serves as a framework for leaders to use in assessing their styles before undertaking a training program that is designed to move them to the 9, 9 style.

MANAGERIAL GRID

#### 9. 9) Management Management 9 Work accomplished Thoughts attention is from committed to needs of people 8 people, interdependence for satisfying relationthrough a "common stabe" ship leads to a in organization purpose comfortable friendly leads to relationships organization atmos-6 of trust and respect phere and work tempo (5, 5 Management) 5 Adequate organization performance is possible through 4 balancing the necessity to get out work with maintaining morale of people at a satisfactory level (9 1 Management 2 (1, 1) Management Efficiency in operations results Exertion of minimum from arranging effort to get required work done is conditions of appropriate to systain organization membership work in such a way that human element interfere Concern for Production to a minimum degree.

Source: Robert R. Blake and Jane S. Mouton, The Managerial Grid (Houston, Gulf Publishing, 1964, p. 10.

Although the managerial grid has not been thoroughly supported by research, it is still a popular theory of leadership among managers.

SOURCE: "ORGANIZATIONS", by Gibson, Ivancevich, Donnelly,
Fourth Edition, 1982. <u>Published</u> by Business
Publishing Inc. Plano, Texas.

pp. 243, 244.

# (iii) THE UNIVERSITY OF MICHIGAN STUDIES: JOB CENTERED AND EMPLOYEE CENTERED

Since 1947, Libert has been studying how best to manage the efforts of individuals to achieve desired performance and satisfaction objectives. The purpose of the most of the leadership reserach from the University of Michigan has been to discover the principles and methods of effective leadership. The effectiveness criteria used in many of the studies include:

- Productivity per work hour or other similar measures of the organization's success in achieving its production goals.
- Job satisfaction of members of the organization
- Turnover, absenteeism, and grievance rates
- Costs
- Scrap loss
- Employee and managerial motivation

The initial study was conducted on high and low producing work groups in the Prudential life insurance company. It was found that most of the high producing groups were led by superions who had a general, employee-centered style. The effective superiors did not give detailed instructions and keep a close eye over their employees but instead were concerned with end results and were genuinely concerned with the welfare of their people. In other words, effective style was ends oriented rather than means oriented and gave precedence to the

welfare of the employee over task accomplishment.

Over the years the Prudential study has been extended by numerous other studies.

In 1967, Libert summarized the work of this Michigan group into the now famous four systems of Management.

Exploitative Atuhoritative (System 1): Managers who operate according to system 1 are very authoritarian and actually try to exploit their subordinates.

Bernevolent Authoritative (System 2): The system 2 manager is also authoritarian, but in a paternalistic manner. This benevolent autocrat keeps strict control and never delegates to subordinates but "pats them on the head" for "their best interests". In other words, a system 2 manager treats people like children.

Consultative (System 3): System 3 managers use a consultative style. They ask for and receive participative input from subordinates, but they maintain the right to make the final decision.

Participate group (System 4): System 4 managers use participative group or democratic style. They give some direction to subordinates, but there is total participation and decision by majority or consensus. In some cases an actual vote may be taken.

These four styles differ from one another in terms of:

- (1) Character of motivational forces
- (2) Character of communication process
- (3) Character of Interaction Influence Process
- (4) Character of Decision Making Process
- (5) Character of goal setting or ordering
- (6) Character of Control Process
- (7) Performance characteristics

In Table I, you will find a summary of the characteristics of the four styles with respect to the above dimension.

- SOURCE: D'Organizations" by Gibson, Ivancevich, Donnelly.

  Fourth edition, 1982. Published by Business

  Publishing Inc. Plano, Texas.
- pp. 238,239. "Since 1947, Libert has been studying .....
  Employee and managerial motivation".
  - 2) "Introduction to Management: A Contingency
    Approach" by Fred Luthans. <u>Published</u> by McGraw Hill, 1978.
- pp. 129, "The initial study was conducted on .... In some cases an actual may be taken".

TABLE I

ORGANIZATIONAL AND PERFORMANCE CHARACTERISTICS OF DIFFERENT MANAGEMENT SYSTEMS BASED ON A

COMPARATIVE ANALYSIS

	SYSTEM	OF ORGANIZATION	Y	
	1 211	AUTHORITATIV	E	PARTICIPATIVE
OPERATING CHARACTERISTICS	EXPLOITIVE AUTHORITATIVE	BENEVOLENT AUTHORITATIVE	CONSULTATIVE	PARTICIPATIVE GROUP
l. Character of				
Motivational				
Forces				
a) Underlying	Physical security,	Economic and	Economic, ego,	Full use of economic,
motives tapped	economic security,	occasionally	and other major	ego, and other major
	and some use of	ego motives,	motives, e.g.,	motives, as,,for
	status	e.g. the desire	desire for new	example, motivational $^{35}$
		for status	experience	forces arising from
				group processes.
b) Manner in	Fear, threats,	Rewards and	Rewards,	Economic rewards based
which motives	punishment, and	some actual or	occasional	on compensation system
are used	occasional	potential	punishment,	developed through particip
	rewards	punishment	and some	ation involvement in setti
			involvement	goals, improving methods,
	•			appraising progress toward
				goals, etc

	SISIE	M OF ORGANIZATION		
OPERATING	AUTHORA	ATATIVE		PARTICIPATIVE
CHARACTERISTICS	EXPLOITIVE	BENEVOLENT		PARTICIPATIVE
	AUTHORITATIVE	AUTHORITATIVE CO	NSULTATIVE	GROUP
c) Kind of attitude developed toward organization and its goals	s Attitudes usually are hostile and counter to organization's goals	Attitudes are sometimes hostile and counter to organization's goals and are sometimes favourable to the organization's goals and support the behaviour necessary to achieve them	Attitudes may be hostile but more often are favourable and support behavious implementing organization's goals	favourable and provide powerful
d) Extent to	Market conflict of		Some conflict, bu	nt Motivational

which motivational forces conflict with or another

forces substantially reducing those motivational forces leading to behaviour other, at least in support of the organization's

goals

ally forces will forces will reinforce each partially

exists, occasion- often motivational reinforce each other

forces generally reinforce each other, in a substantial and cumulative manner

OPERATING	AUTHO	RITATIVE		PARTICIPATIVE
CHARACTERISTICS	EXPLOITIVE	BENEVOLENT	CONSULTATIVE	PARTICIPATIVE
	AUTHORITATIVE	AUTHORITATIVE		GROUP
e) \Amount of	High levels of		Substantial proportic	n Personnel feel
responsibilityca	management	Managerial personnel	of personnel feel	real responsibl-
felt by each member	feel responsibl-	usually feel	responsibility and	ity for organi-
of organization for	ity, lower	responsibility,	generally behave in	zation's behave
achieving	levels feelldess.	rank and file	ways to achieve	in ways to
organization's	Rank and file feel	usually feel	the organization's	implement them
goals	little and often	relatively little	goals	
	welcome oppurtu-	responsibility for		
	nity to behave	achieving organiza-		
	in ways to defeat	tion's goals		37
	organization's			
	goals			
	•			
f) Attitudes toward	Subservient attitude	s Subservient	Cooperative,	Favourable,
other members of	toward superiors	attitudes toward	reasonably	cooperative
the organization	coupled with	superiors, compe-	favourably	attitudes
	hostility, hostility	tition for status	attitudes toward	throughout the
	toward peers and	resulting in	others in organiza-	organization with
	contempt for	hostility toward	tion, may be some	mutual trust and
	subordinates,	peers, condescen-	competition between	confidence
· · · · · · · · · · · · · · · · · · ·	distrust is	sion toward	peers with resulting	3
	widespread.	subordinates	hostility and some	
			condescension toward	<b>i</b>
			subordinates	

a) Amount of

aimed at achieving

objectives

interaction and communication

organization's

Very little

	0101111	OI ONGANIZATION		
OPERATING				ADELOTDAEE
CHARACTERISTICS	AUT	HORITATIVE	Ρ	ARTICIPATE
	EXPLOITATIVE	BENEVOLENT	P	ARTICIPATE
	AUTHORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP
g) Satisfaction	Uswally dissatis-	Dissatiscation	Some dissatisfac-	Relatively high
derived	faction with member-	- to moderate	tion to moderately	satisfaction
	ship in the organiza	a- satisfaction	high satisfaction	throughout the
	tion, with super-	with regard	with regard to	organization with
	vision, and with	to membership	membership in the	regard to membership
	one's own	in the organi-	organization,	in the organization,
	achievements	zation, super-	supervision, and	supervision, and
		vision, and one's	one's own	one's own
		own achievements	achievements	achievements $\overset{\omega}{\infty}$
				1
2. Character of				
Communication				
Process				

Little

Much with both

Quite a bit

individuals and groups

OPERATING		AUTHORITATI	VE	PARTICIPATIVE
CHARACTERISTICS	EXPLOITATIVE	BENEVOLENT		PARTICIPATIVE
	AUTHORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP
b) Direction of	Downward	Mostly Downward	Down and up	Down, up, and
information flow				with peers
c) Downward				Down, up, and
communication	Downward	Mostly Downward	Down and up	with peers
i) where	At topof	Primarily at top or	Patterned onv	Initiated at
initiated	organization	patterned on	communication	all levels
	or to imple-	communication from	from top but	ω
	ment top	top	with some	ω !
	directive		initiative at	
			lower levels	
ii) Extent to	Wiewed with	May or may not be	Often accepted	Generally accepted,
which communi-	great	viewed with	but at times	but if not, openly
cation are	suspicion	suspicion	viewed with	and candidly
accepted by			suspicion. May	questioned.
subordinates			or may not be	
			openly	
			questioned	

OPERATING	AUTHORIT	IVE		PARTICIPATIVE
CHARACTERISTICS	EXPLOITIVE	BENEVOLENT		PARTICIPATIVE
	AUTHORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP
d) Upward				
communication				
i) Adequacy				
of upward				
communication				
via line				
organization	Very little	Limited	Some	A great deal
ii) Subordinates		Relatively little,	Some to moderate	Considerable _
feeling of		usually communica-	degree of na	responsibility
responsibility		tes "filtered"	responsibility to	felt and much
for initiating		information but	initiate accurate	initiative.
accurate upward		only when requested	. upward communica-	Group communicates
communication	Not at all	May "yes" the boss	tion	all relevant informa-
				tion
iii) Forces leading		Occasional forces	Some forces to	Virtually no forces to
to accurate or	to distort		distort along	distort and poweful
distorted informa-	information and	forces for honest		forces to dommunicate
tion	decieve superiors	communication	to communicate	accurately

accurately

			in the second se			
	OPERATING CHARACTERISTICS	EXPLOITIVE	AUTHORITATIVE BENEWOLENT		PARTICIPATIVE PARTICIPATIVE	
	CHARACILRISTICS			CONCANT MAMENTS		
		AUTHORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP	
	iv) Accuracy of	Tends to be	Information that	Information that		
	upward communica-	inaccurate	boss wants to hear	boss wants to hear		• •
	tion via line		flows, other	flows, other		
			information is	information may		
			restricted and	be limited or		
			filtered	cautiously given	Accurate	
	v) Need for	Need to supplement	Upward communica-	Slight need for		
	supplementary	upward communica-	tion often	supplementary	No need	1.
	upward communica-	tion by spy system,	, supplemented	system, sugges-	for any	14
	tion system	suggestion system,	by suggestion	tion system may	supplementary	ı
		or some similar	system and similar	be used	system	
		devices	devices			
	e) Side ward commu-	Usually poor	Fairly poor	Fair to good	Good to	
	nication, its	because of	because of		excellent	
	adequacy and	competition	competition			
,	accuracy	between peers	between peers			
		and corres-				
		ponding				
		hostility				

CHARACTERISTICS BENEVOLENT PARTICIPATIVE EXPLOITIVE

**AUTHORITATIVE** 

f) Psychological closeness of superiors to subordinates (i.e. how

well does superior know and

unders tand problems faced

by subordinates?)

i) Accuracy of perceptions by

superiors and subordinates

Often in error

Often in error

Moderately

CONSULTATIVE

Usually quite

accurate

3) Character of Interaction

Influence Process

GROUP

AUTHORITATIVE

on some points

accurate

OPERATING	EXPLOITATIVE	BENEVOLENT	CONSULTATIVE	PARTICIPATE
CHARACTETISTICS	AUTHORITATIVE	AUTHORITATIVE		GROUP
a) Amount of	Little interaction	Little interaction	Moderate interac-	Extensive, friendly
and character	and always with	and usually with	tion, often with	interaction with
of interaction	fear and distrust	some condescension	fair amount of	high degree of
•		and caution by	conflidence and	confidence and
		subordinates	trust	trust
b) Amount of				
cooperative				Very substantial
teamwork			A moderate	amount throughout
present	None	Virtually none	amount	the organization $\overset{\digamma}{\omega}$
			The MARK CONTRACTOR	<b>1</b>
c) Extent to				
which subordinat	ces			
can influence th	ne			
goals, methods,				
and activity of				
their units and				
departments				
1) As seen by			Moderate	A great deal
superiors	None	Virtually none	amount	

SYSTEM	ΛF	ORCA	NT7.	ATTO	VI.
13 1 13 1 14 14	(/ I	UNGA	1 W .1. KJ	$\Delta T T \Delta I$	ч.

		DIDIBIL 01 01(01	2.4	
OPERATING	EXPLOITATIVE	BENEVOLENT	CONSULTATIVE	PARTICIPATIVE
CHARACTERISTICS	AUTHORITATIVE	AUTHORITATIVE		GROUP
2) As seen by	None except	Little except	Moderate amount	Substantial amount
subordinates	through	through	both directly	both directly and
	"informal	"informal"	and via	via unionization
	organization"	organization	unionization	
	or via un-	or via		ž
	ionization	unionization		
d) Amount of	Believed to be	Moderate to some-	Moderate to	Substantial but
actual influence	es substa <b>n</b> tial but	what more than	substantial,	often done in-
superiors can	actually moderate	moderate,	especially for	directly, as,
exercise over	unless capacity	especially for	hhigher levels	for example,
the goals,	to exercise severe	higher levels in	in organization	by superior
activity, and	punishment is	organization		building
methods of	present			effective
their units and				interaction-
departments				influence system
e) Extent to	Downward only	Almost entirely	Largely	Capacity for informa
which an adequat	e e	downward	downward but	tion to flow in all
structure exists			small to	directions from all

for the flow of

moderate capacity levels and for

upward and influence to be

CONSULTATIVE

PARTICIPATIVE GROUP

information from one part of the organiization to another, thereby enabling influence to be exerted between beers

exerted by all units

4) Character of decision making

Process

a) At what level i Bulk of decisions in organization at top of are decisions organization formally made?

Policy at top, many decisions within prescribed frame-work made at lower levels

Broad policy and Decision-making
general decisions widely done
at ton, more throughout
specific decisions organization
at lower levels although wellintegrated through
process provided
by overlapping groups

! ;;

			SYSTEM OF ORGANIZATION		
. (	OPERATING EXF	PLOITIVE	BENEVOLENT		PARTICIPATIVE
(	CHARACTERISTICS AUI	THORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP
}	a) How adequate F	Partial and	Moderately adequate	Reasonably	Relatively omplete
	and accurate is c	often in-	accurate informa-	adequate and	and accurate informa-
•	the information a	ccurate	tion available	accurate	tion available based
ć	available for i	nformation		information	both on measurement
. (	decision making c	only is		available	and efficient flow
· á	at the place a	vailable			of information in
V	where the deci-				organization
S	sions are made?				
. (	2) TO what	Often are	Aware of some,	Moderately	Generally 5
e	extent are	unware or	unware of	aware of	quite well
	lecision makers	only part-	others	problems	aware of
ã	ware of problems,	ially aware			problems
F	particularly those				
ā	at lower levels in				
t	the organization?				
Ċ	l) Extent to	Used only if	Much of what	Much of what	Most of what is
W	hich technical	possessed( at	is available	is available	available anywhere
а	nd professional	higher levels	in higher and	in higher,	within the
k	nowledge is used		middle levels	middle and	organizationsis
i	n decision making		is used	lower levels	used
ĩ.;	one and g			is used	

OPERATING CHARACTERISTICS	EXPLOITIVE AUTHORITATIVE	BENEVOLENT AUTHORITATIVE	CONSULTATIVE	PARTICIPATIVE GROUP
e) Are decisions				
made at the				
best level in				
the organiza-				
tion so far as				
<u>.</u>				
i) Having	Decision usually?	Decisions often	Sóme tendency	Overlapping groups
available	made at levels	made at levels	for decisions	and group decision
the most	appreciably higher	appreciably	to be made at	processes tend #
adequate	than levels where	higher than levels	higher levels	to push decisions (
and accurate	most adequate and	where most	than where most	to point where
information	accurate	adequate and	adequate and	information is
bearing on	information	accurate	accurate inform-	most adequate or
the decision?	exists	information exists	ation exists	to pass the relevant
		(c) (c)		information to the
				decision making point
•				
ii) The motiva-	Decision making	Decision making	Some contribution	Substantial contribu-
tional consequenc	es contributes	contributes	by decision makin	g tion by decision
(i.e. does the	little or	relatively little	to motivation to	making processses to
decision making	nothingoto	motivation	implement	motivation to
				implement

to create the necessary motivations in those persons who have to carry out the decision?)

f) Is decision

making based on

man to man or

group pattern

of operation?

or discourage

teamwork?

Does it encourage

to implement the decision, usually vields adverse motivation

Man-to-man only, discourages team work.

Man-to-man almost entirely discourages teamwork

Both man-to-man and group, partially encourages teamwork

Largely based on group pattern, encourages teamwork

PARTICIPATIVE

GROUP

5) Character of Goal Setting or Ordering

		SYSTEM OF ORGANIZAT	CION	
OPERATING	EXPLOITIVE	BENEVOLENT		PARTICIPATIVE
CHARACTERISTICS	AUTHORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP
<b>.</b>				
a) Manner in	Order issued	Order issued	Goals are set or	Except 3
which usually		opportunity to	orders issued aft	ter emergencies,
done		comment major	discussion with	gaols are
		may not exist	subordinates of	usually
			problems and	established
			planned action	by means of
				group
				participation,
				6 +
b) To what	High goals	High goals	High goals	High goals
extent do	pressed by	sought by	sought by	sought by all
the different	ton, resisted	top and	higher levels	levels, with
hierarchical	bу	partially	but with some	lower levels
levels tend	'subordinates	resisted	resistance by	sometimes
to strive		by subordinates	clower levels	pressing for higher
for high				goals than top
performance				levels
goals?				
c) Are there	Goals are overtly	Goals are overtly	Goals are overtly	Goals are fully
forces to	accepted but are	accepted but often	accepted but at	accepted both
accept, resist	covertly resisted	covertly resisted	times with some	overtly and
	_			

to at least a

moderate degree

covert resistance covertly

or reject goals? strongly

BENEVOLENT AUTHORITATIVE

CONSULTATIVE

PARTICIPATIVE GROUP

### 6) Character of Control Processes

a) At what hierarchical levels in organization does major or primary concern exist with regard to the performance of the control function?

At the very top only

Primarily or largely at the top

Primarily at the top but some shared feeling of responsibility felt at 1 middle and to a lesser extent at lower levels

Concern for performance of control function likely to be felt throughout organization

b) How accurate are the measurements used to guide and perform the

Very strong forces exist to distort and falsify, as a consequence, measurements and information are

Fairly strong forces exist to distort and falsify, hence measurements and information

Some pressure to protect self and colleagues and hence some pressure to distort, inform-

Strong pressures to obtain complete and accurate information to guide own behaviour and behaviour of own and

and information

OPERATING	EXPLOITIVE	BENEVOLENT		PARTICIPATIVE
CHARACTERISTICS	AUTHORITATIVE	AUTHORITATIVE	CONSULTĄTIVE	GROUP
control function,	usually incomplete	are often in-	mation is only	related work
and to what	and often in-	complete and	moderately	groups, hence
extent do forces	complete and in-	inaccurate	complete and	information and
exist in the	accurate	<b>a</b>	contains some	measurements tend
organization to			inaccuracies	to be complete
distort and				and accurate
falsify this				
information?				
				σı
c) Extent to	Highly	Relatively highly	Moderate down-	Quite wide-
which the	concentrated	concentrated,	ward delegation	spread
review and	in top manage-	with some	of review and	responsibility
control	ment	delegated	control processes,	for review and
functions are		control to	lower as well as	control, with
concentrated		middle and	higher levels	lower units at
		lower levels	feel responsible	times imposing
				more vigorous
				reviews and tighter

controls than top

management

OPERATING	EXPLOITIVE	BENEVOLENT		PARTICIPATIVE	
CHARACTERIS	TICS AUTHORITATIVE	AUTHORITATIVE	CONSULTATIVE	GROUP	
d) Extent to which there in an informal organization presentand support or opposing goals of for	tion present and opposing goals of formal organ: t tion ing	tion usually present and	tion may be p and may eithe	rtially the same, hence	d ce es to
organization 7) Performa	n			C   N   I	
Characteris	tics				
a) Producti	vity Mediocre productivity	Fair to good productivity	Good productivity	Excellent productivity	
b) Excessive absence and turnover	e Tends to be high when people are free to move	Moderately high when people are free to move	Moderate	Low	

OPERATING CHARACTERISTICS	EXPLOITIVE AUTHORITATIVE	BENOVOLENT AUTHORITATIVE	CONSULTATIVE	PARTICIPATIVE GROUP
CHARACTERISTICS	AUTHORITATIVE	AOIIIONIIMITVE	CONSULTATIVE	GIVOOI
c) Scrap loss	Relatively high	Moderately high		Members themselves
and waste	unless policed	unless policed	Moderate	will use measurements
	carefully			and other steps in effort to keep losses
				to a minimum
d) Quality	Necessary for	Useful for	Useful for	Useful to help
control and	policing	policing	check	workers guide own
inspection				efforts 5ω

Source: "The Human Organization: Its Management and Value," by Rensis Libert Published by McGraw-Hill, Inc. (1967), pp. 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24

In this research, we are going to test Michigan's University's model in Turkey. This modelhas been tested in many developed countries and the results have been encouraging.

Moreover, it is strongly recommended that Ohio state's model should also be tested in Turkey to see whether it is valid here.

# (B) SOME IMPORTANT CONCLUSIONS FROM UNIVERSITY OF MICHIGAN STUDIES

Some important conclusions from Michigan's studies are presented below. The validity of these conclusions will be analyzed in part two.

(1) Many different groups of managers, totaling several hundred persons, have completed table (of organizational and performance characteristics of different management systems) describing both the highest and lowest producing departments which they know well. They have varied in their descriptions of the most productive departments, some are quite for to the right, being largely under system 4. For others, the most productive unit largely under system 3. The striking fact is that irrespective of where the high-producing unit fall in the table, the low producing department fall to the left. Quite consistently, the high producing department is seen as toward the right end of the table.

For the vast majority of managers, this has been the pattern for every item in the table irrespective of the field of experience of manager \_\_\_\_\_\_ production, sales, financial, office, etc. \_\_\_\_\_ and regardless of whether he occupies a staff of line position. In about one case in twenty, a manager will place the low producing unit to the right of the high on one or two items. But with very few exceptions, high producing departments are seen as using management systems more to the right (toward system 4) and low producing units as more to the left (toward system 1).

According to Miles, Parenthetically, some low producing managers, although they display the same pattern of answers as other managers, believe that a manager should move toward system 4 after he has achieved high levels of productivity. They feel that the way to move from low to high productivity is to use a management system well toward the left (e.g. system 1 or 2) and move toward system 4 only after high productivity is achieved. Their view is essentially that of the superior of a lew producing unit who said:

"This interest-in-people approach is all right, but it is a luxway. I have got to keep pressure on for production, and when I get production up, then I can afford to take time to show an interest in my employees and their problems."

According to Likert, research results show that managers who hold this view are not likely to achieve high productivity in their units.

- (2) Labour relations appear to be best in plants whose management system fadls toward the right (system 4 end), they are poorest in plants whose management systems fall toward system 1. These relationships improve when the management system shifts toward system 4, they worsen when a shift toward system 1 occurs.
- (3) Libert examines the effect on performance of 3 basic concepts of system 4 management:
  - (a) The use by the manager of the principle of supportive relationships
  - (b) his use of group decision making and group methods of supervision
  - (c) his high performance goals for the organization
- (a) The principle of supportive relationships is a general principle which the members of an organization can use to guide their relationships with one another. The more fully this principle is applied throughout the organization, the greater will be the extent to which
- (i) the motivational forces arising from the noneconomic motives of members and from their economic needs will be harmonious and compatible.

(ii) the motivational forces within each individual will result in cooperative behaviour focused on achieving organizational goals. The principle is stated as follows:

"The leadership and other processes of the organization must be such as to ensure a maximum probability that in all interactions and in all relationships within the organization, each member, in the light of his background, values, desires, and expectations, will view the experience as supportive and one which builds and maintains his sense of personal worth and importance".

In applying this principle, the relationship between the superior and subordinate is crucial. This relationship, as the principle specifies, should be one which is supportive and ego-building. The more often the superior's behaviour is ego building rather than ego-deflating the better will be the effect of his behaviour on organizational performance. In applying this principle, it is essential to keep in mind that the interaction between the leader and the subordinates must be viewed in the light of the subordinate's background, values, and expectations. The subordinate's perception of the situation, rather than the superior's determines whether or not the experience is supportive. Both the behaviour of the superior and the employee's perceptions of the situation must be such that the subordinate in the light

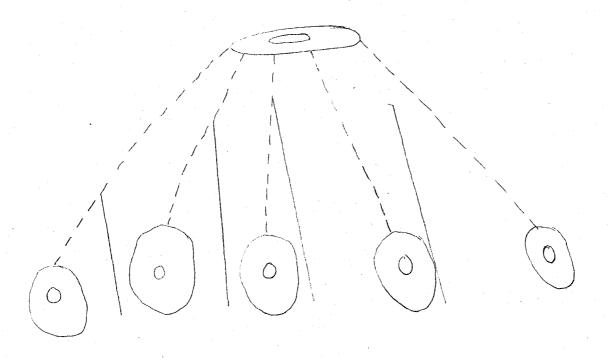
of his background, values and expectations sees the experience as one which contributes to his sense of personal worth and importance, one which increases and maintains his sense of significance and human dignity.

(b) The use by the superior of group decision making and supervision in the management of his work group was the second fundamental concept of system 4 whose effect on performance was examined by Likert.

The traditional organizational structure (system 1 and 2) does not use a group form of organization but consists of a man-to-man moded of interaction, i.e., superior to subordinate.

### Figure IV

"Man-to-Man
Pattern of
Organization

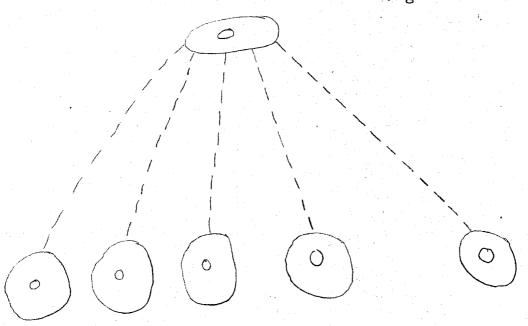


In this model, starting at the top of the firm, the president has full authority and responsibility. He delegates to each vice president specific authority and responsibility and holds each accountable. Each vice-president in turn does the same with each of his subordinates, and this continues down through the organization. The entire process \_\_\_\_\_\_ starting policy, issuing orders, checking, controlling, etc. \_\_\_\_\_ involves man-to-man interaction at very hierarchical level.

System 4 management, in contrast, uses an overlapping group form of structure with each work group linked to the rest of the organization by means of persons who are members of more than one group.

### Figure V

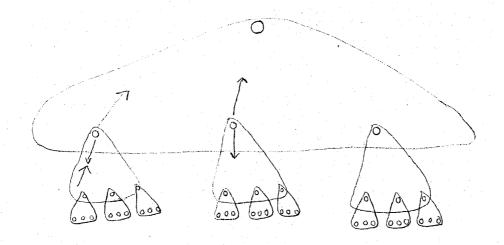
Group Pattern of Organization



These individuals who hold overlapping group members hip are called "linking pins".

#### Figure VI

The Linking Pin



The interaction and decision making relies heavily on group processes.

When the group process of decision making and supervision is used properly, discussion is focused on decisions to be made. There is a minimum of idle task. Communication is clear and adequately understood.

Important issues are recognized and dealt with.

Confidence and trust pervade all aspects of the relationship. The group's capacity for effective problem solving is maintained by examining and dealing with group processes when necessary.

(c) The third concept whose influence on organizational effectiveness was considered by Likertudeals with performance goals.

Many studies (Kahn 1958; Miller and Form, 1964) show that employees rather generally want stable employment, jobssecurity, opportunities for promotion, and satisfactory compensation. They also with to be proud of the company they work for and of its performance and accomplishments. Since these needs and desires are important to the members of the organization, the principle of supportive relationship requires that they be met. This can be done best by an organization which is economically successful. A firm must succeed and grow to provide its employees with what they want from a job: pride in the job and company, job security, adequate pay, and opportunities for promotion. According to Likert, Economic success is a "situational requirement," which can be met only when the organization, its departments, and its members have high performance. goals.

Superiors in system 4 organization, consequently, should have high performance aspirations, but this is not enough. Every member should have high performance aspirations as well. Since these high performance goals should not be imposed on employees, there must be a mechanism through which employees can help set the high-level goals which the satisfaction of their own needs requires.

System 4 provides such a mechanism through:
(i) group decision making

(ii) multiple, overlapping group stucture

As a consequence, system 4 organizations set objectives which represent an optimum integration of the needs and desires of the members of the organization, the shareholders, customers, suppliers, and others who have an interest in the enterprise or are served by it. Since economic and status needs are important to the members of an enterprise, the goal-setting processes of system 4 necessarily lead to high performance goals for each unit and for the entire firm. Any time these high performance aspirations do not exist, there is a deficiency in the interaction processes of the organization and failure to recognize the situational requirements.

The nature of the specific procedures for applying system 4 management in a particular firm will vary depending upon the nature of the work and the traditions of the company. The basic principles of the system 4 management, however, are the same for all situations.

The interrelations among some of these key variables can be portrayed graphically in a useful although oversimplified form (see next page).

The 3 kinds of variables shown in this figure are the causal, intervening, and end-result variables.

The causal variables have 2 essential characteristics:

- (i) they can be modified or altered by members of the organization i.e. they are neither fixed nor controlled by external circumstances.
- (ii) They are independent variables, i.e., when they are changed, they cause other variables to change, but they are not, as a rule, directly influenced by other variables.

The level or condition of the intervening variables, are produced bargely by the causal variables and in turn have an influence upon the end-result variables. Attempts by members of the organization to improve the intervening variables by endeavoring to alter these variables directly will be much less successful, usually, than efforts directed toward modifying them through altering the causal variables. Similarly, efforts to improve the end-result variables will usually be less effective than changing the causal variables.

The end-result variables reveal the final outcome and reflect the influence of the intervening variables upon them.

The Figure given below indicates the direction of causality and the influence of an especially important variable, time.

#### FIGURE 7

SEQUENCE OF DEVELOPMENTS IN A WELL-ORGANIZED ENTERPRISE, AS AFFECTED BY USE OF SYSTEM 2 OR SYSTEM 4 If a manager has: well-organized plan. of operation, high performance, high technical competence (manager or staff standards) and if the manager manages via

#### Causal variables

systems 1 or 2 e.g. uses direct hierarchical pressure for results, including the usual contests and other practices of the traditional systems

system 4 e.g. uses principles of supportive relationships, group methods of supervision, and other principles of system 4

### Intervening variables

Less group loyalty, lower performance goals, greater conflict and less coopera- performance goals, greater cooption, less technical assistance to peers, greater feeling of unreasonable pressure

his organization will display Greater group loyalty, higher eration, move technical assistance to peers, more favourable attitudes toward manager

### End Result Variables

Lower sales volume, higher sales costs, lower quality of business sold, lower earnings by salesmen

and his organization will attain: Higher sales volume, lower sales costs, higher quality of business sold, higher earnings by salesmen

Reference: "The Human Organization: Its Management and Value" by Rensis Likert.

Published by: McGraw-Hill Book Company (1967)

(4) The variable which appears to be particularly important is time. As so often happens in research, it was failure to obtain expected results in an experiment which called to the attention of the investigators the importance of this negleted variable. In two separate large scale field experiments, the institute for social research obtained findings contrary to the predictions which had been made when the research projects were designed. In both instances, evidence emerged in the analysis, or in subsequent developments, to show that the time intervals between the changes in the causal variables and the related changes in the intervening and finally in the end result variables took much longer than the investigators had expected.

These studies showed:

"Changes in the causal variables toward system
4 apparently require an appreciable period of time
before the impact of the change is fully manifest in
corresponding improvement in the end-result variables."

(5) Every component part of a particular management system fits well with each of the other parts and functions in harmony with them. Each system of organization has a basic integrity of its own. The communication processes of system 1 are compatible with all other aspects of system 1 but are not compatible with any aspects of system 3 or system 4. The same is true of the

decision making processes and the compensation plans. The management system of an organization must have compatible component part if it is to function effectively.

This conclusion has a very important implication: experiments in organizations must involve internally consistent changes. A test of the effectiveness of the upward communication process of system 4 will yield misleading findings if all the rest enterprise is using system 2 methods. The organic integrity of each system must be maintained while experimental variations are being made. In short,

- (a) Maintain system integrity in organization change and management development.
- (b) Management training needs to be based on a single system.
- (6) The capacity of an organization to obtain accurate measurements of the causal, intervening, and end result variables is greatly influenced over time by the manner in which these data are used. All levels of hierarchy in an organization, except the very top, fear measurements which are used in a punitive manner by their superiors. To protect themselves they tend to resist covertly, if not overtly, the collection of such data. The also try, and often successfully, to distort the measurements in ways to favour or protect themselves.

This occurs commonly with the end-result measurements in system 2 organizations.

The primary purpose of measurements in system 4 organizations is to provide managers and non-supervisory employees with information to help them guide their own decisions and behaviour. These data aid the members of the organization to accomplish both the specific goals they have set for themselves and the broad objectives they have helped to set for the organization. Measurements of all 3 kinds of variables i.e. causal, intervening, and end-result are eagerly sought when they provide valuable information to help guide decisions and actions and are not used punitively by superiors. All members of the organization want the data and clearly recognize the necessity for the measurements to be accurate. These are strong motivational forces among the members to do all they can to assure that the data are accurate and correctly reflect conditions and developments in the organization when the measurements are used for self-guidance. These are, therefore, impressive differences among the different systems of management in their capacity to obtain accurate and undistorted measurements of all variables. System 4 can obtain significantly more accurate data than can the other existing systems.

This general conclusion seems to apply equally well to trends in an organization with regards to its

management system. If an organization is shifting toward system 4 and its members are aware of this trend, their motivational forces to assure accurate measurements are increased. When, on the contrary, the trend in the management system of an organization is toward system 1, then motivational forces are to resist the collection of the measurements and to seek to distort the data. Moreover, the greater the trend in either direction and the longer it persists, the greater the changes appear to be in the motivational forces in the predicted direction.

The full potential power of accurate measurement to guide decisions and actions are available to an appreciable greater extent in system 4 organizations, or in firms shifting in that direction, than in system 1 enterprises, or those shifting toward it. The latter have sizeable motivational forces in their members to distort the measurements to protect themselves. This prevents the firm from benefiting from accurate information. Moreover, in system 4 organizations, the high levels of confidence and trust which exist enable accurate measurements once obtained to flow to all relevant parts of the enterprise to provide correct information to all persons who have need for it.

(7) A science-based theory of organization, such as system 4, offers modern industrial society new resources to cope with complex organizational problems. It provides formal solutions to organizational difficulties which cannot be solved within the framework and concepts of traditional organizational theory. At present these problems are often handled by means of informal solutions which are at variance with the formal organizational theory of the firm.

A satisfactory solution requires an organization which can have extensive functionalization and which can resolve differences and achieve efficient coordination on a product or geographical basis. This usually will necessitate effective coordination horizontally as well as vertically. To meet these requirements, an organization will need to have two or more channels of decision making and coordination, with at least one occuring via the functional lines and the other via the product or geographical line. Many persons in such an organization will have 2 or more superiors.

This organization will need to have decision making and influence processes sufficiently effective to reach first rate decisions and to achieve highly motivated, coordinated behaviour directed toward efficiently attaining the organization's goals. These decision making and influence processes must be able to achieve coordination in spite of initial and often

substantial conflict coming through 2 or more channels in lines.

At least 4 conditions must be met by an organization if it is to achieve a satisfactory solution to the coordination functional problem.

- (1) It must provide high levels and especially among peers. Favourable attitudes and confidence and trust are needed among its members.
- (2) It must have the organizational structure and the interaction skills required to solve differences and conflicts and to attain creative solutions.
- (3) It must possess the capacity to exert influence and to create motivation and coordination without traditional forms of line authority.
- (4) Its decision-making processes and superiorsubordinate relationships must be such as to enable a person to perform his job well and without hazard when he has 2 or more superiors.

These 4 conditions are not and cannot be met by a system 1, 2, or 3 organization operating on the basis of currently accepted organizational theory. This is not to say that the highest-producing managers are not operating within system 2 and system 3 companies in such a way as to provide these conditions. They are. But, inclosing so, these high producing managers are deviating in fundamental ways from the formal theory upon which their company's organizational structure and standard operating procedures are based.

### INADEQUACIES OF SYSTEMS 1, 2, AND 3

The formal organization theory underlying systems 1 through 3 fails to meet these 4-conditions in that

- (1) the theory specifies that a person can have only one boss.
- (2) it calls for managerial procedures and behaviour which, on the average, tend to produce competition and conflict between peers and apathy or resentment among subordinates.
- (3) if fails to make full use of those motivational forces which must be employed if cooperative attitudes and effective coordination are to be achieved.

Research shows, the highest producing managers are, on the average, bound neither by the inadequate motivational assumption of systems 1 and 2 nor by the systems themselves. They do not reject motivation based on economic needs. They seek to use it more fully than present wage-and-salary plans by providing more clearcut economic rewards for behaviour which helps the organization achieve its objectives. They seek to avoid rewarding behaviour which fails to serve the company's objectives or which defeats their attainment, as, for example, salary plans which generously reward managers for liquidating a firm's human assets. In addition to

making more effective use of economic needs, these managers strive to use fully the non economic motives which yield cooperative attitudes and behaviour.

Using their experience and insights, these managers are steadily developing more effective managerial principles. An integration of these principles into a management theory has yielded system 4. This sciencebased system offers new and more promising solutions to the complex problems of managing and coordinating the highly complex enterprises required by modern technology.

Reference: "The Human Organization: Its Management and Value". by Renesis Likert. Published by:

McGraw-Hill Book Company (1967).

#### CONCLUSION

To summarize according to Likert, the properties and performance characteristics of the ideal highly group are as follows:

- (1) The members are skilled in all the various leadership and membership roles and functions required for interaction between leaders and members and between members and other members.
- (2) The group has been in existence sufficiently long to have developed a well-established, relaxed working relationships among all its members.

- (3) The members of the group are attracted to it and are loyal to its members, including the leader.
- (4) The members and leaders have a high degree of confidence and trust in each other.
- (5) The values and goals of the group are a satisfactory integration and expression of the relevant values and needs of its members. They have helped shape these values and goals and are satisfied with them.
- (6) Insofar as members of the group are performing linking functions, they endeavor to have the values and goals of the groups which they link in harmony, one with the other.
- (7) The more important a value seems to the group, the greater the likelihood that the individual member will accept it.
- (8) The members of the group are highly motivated to abide by the major values and to achieve the important goals of group. Each member will do all that the reasonably can \_\_\_\_\_ and at times all in his power \_\_\_\_ to help the group achieve its central objectives. He expects every other member to do the same. The high motivation springs, in part, from the basic motive to achieve and maintain a sense of personal worth and importance. Being valued by a group whose values he shares, and deriving a sense of significance and importance from this relationship, leads each member to do his best. He is eager not to let the other members

down. He strives hard to do what he believes is expected of him.

(9) All the interaction, problem solving, decision making activities of the group occur in a supportive atmosphere. Suggestions, comments, ideas, information, criticism are all offered with a helpful orientation. Similarly, these contributions are received in the same spirit. Respect is shown for the point of view of others both in the way contributions are made and in the way they are received.

These are real and important differences of opinion, but the focus is on arriving and aggrevating the conflict. Ego forces deriving from the desire to achieve and maintain a sense of personal worth and importance are channeled into constructive efforts. Care is taken not to let these ego forces disrupt important group tasks, such as problem solving.

The group atmosphere is sufficiently supportive for the members to be able to accept readily any criticism which is offered and to make the most constructive use of it. The criticism may deal with any relevant topic such as operational problems, decisions, supervisory problems, interpersonal relationships, or group processes, but, whatever their content, the member feel sufficiently secure in the supportive atmosphere of the group to be able to accept, test, examine, and benefit from the criticism offered. Also,

he is able to be frank and candid, irrespective of the content of the discussion: technical managerial, factual, cognitive, or emotional. The supportive atmosphere of the group, with the feeling of securists it provides, contributes to a cooperative relationship between the members. And this cooperation itself contributes to and reinforces the supportive atmosphere.

- (10) The superior of each romk group exerts a major influence in establishing the tone and atmosphere of that work group by his leadership principles and practices. In the highly effective group, consequently, the leader adheres to those principles of leadership which create a supportive atmosphere in the group and a cooperative rather than a competitive relationship among the members.
- (11) The group is eager to help each member develop to his full potential.
- (12) Each member accepts willingly and without resentment the goals and expectations that he and his group establish for themselves. The anxieties, fears, and emotional stresses produced by direct pressure for high performance from a boss in a hierarchical situation is not present. Groups seem capable of setting high performance goals for the group as a whole and for each member. These goals are high enough to stimulate each member to do his best, but not so high as to create anxieties or fear of failure. In an effective group,

each person can exert sufficient influence on the decision of the group to prevent the group from setting unattainable goals for any member while setting high goals for all. The goals are adopted to the member's capacity to perform.

- (13) The leader and the members believe that each group member can accomplish "the impossible". These expectations stretch each member to the maximum and accelerate his growth. When necessary, the group tempers the expectation level so that the member is not broken by a feeling of failure or rejection.
- (14) When necessary or advisable, other members of the group will a member the help he needs to accomplish successfully the goals set for him. Mutual help is a characteristic of highly effective group.
- (15) The supportive atmosphere of the highly effective group stimulates creativity. The group does not demand narrow conformity as to the work groups under authoritarian leaders.
- (16) The group knows the value of "constructive" conformity and knows when to use it and for what purposes. Although it does not permit confirmity to affect adversely the creative mechanical and administrative matters to save the time of members and to facilitate the group's activities.
- (17) There is a strong motivation on the part of seach member to communicate fully and frankly to the group

- all the information which is relevant and of value to the group's activity.
- (18) There is high motivation in the group to use the communication process so that it best serves the interests and goals of the group. Members strive also to avoid communicating unimportant information so as not to waste the group's time.
- (19) Just as there is high motivation to communicate, there is correspondingly strong motivation to receive communications. Each member is genuinely interested in any information on any relevant matter that any member of the group can provide.
- (20) In the highly effective group, there are strong motivations to try to influence other members as well as to be receptive by them. This applies to all the group's activities: technical matters, methods, organizational problems, interpersonal relationships, and group processes.
- (21) The group processes of the highly effective group enable the members to exert more influence on the leaders and to communicate.
- (22) The ability of the members of the group to influence each other contributes to the flexibility and adaptability of the group. Ideas, goals, and attitudes do not become frogen if members are able to influence each other continuously.

(23) In the highly effective group, individual members feel secure in making decisions which seem appropriate to them because the goals and philosophy of operation are clearly understood by each member and provide him with a solid base for his decisions. This unleashes initiative and pushes decisions down while still maintaining a coordinated and directed effort. (24) The leader of a highly effective group is selected carefully. His leadership ability is so evident that he

would emerge as a leader in any unstructured situation.

The role of the leader in these groups is particularly important. Certain leadership functions can be shared with group members, others can be performed only by the designated leader. The leader has full responsibility for the group's performance and for seeing that his group meets the demands and expectations placed upon it by the restoof the organization of which it is a part. Other members of the group may share this responsibility at times, but the leader can never avoid full responsibility for the adequate performance of his group.

Although the leader has full responsibility, he does not try to make all the decisions. He develops his group into a unit which, with his participation, makes better decisions than he can make alone.

Through group-decision-making each member feels fully identified with each decision and highly motivated to execute it fully.

The leader feels primarily responsible for establishing and maintaining at all times a thoroughly supportive atmosphere in the group. He encourages other members to share his responsibility, but never loses sight of the fact that as a leader of the work group which is part of larger organization his behaviour is likely to set the tone. The leader also tries to minimizing the influence of his hierarchical position. He is aware that trying to get results by "pulling ranks" affects adversely the effectiveness of his group and his relationship to it. Thus, he endeavors to deemphasize status. He does this in a variety of ways that fit his personality and methods of leading, as for example by:

- listening well and patiently
- not being impatient with the progress being mack by the group, particularly on difficult problems
- accepting more blame than may be warranted for failure or mistake
- giving the group members ample opportunity
  to express their thoughts without being
  constrained by the leader pressing his ownviews
- being careful never to impose a decision upon the group

- putting his contributions often in the form of questions or starting them speculatively
- arranging for others to help perform leadership functions which enhance their status

The leader strengthens the group and group processes by seeing that all problems which involve the group are dealt with by the group. Matters concerning one individual member and only that member are, of course, handled individually, Matters concerning only a subgroup are handled by that subgroup. The total group is kept informed, however, of any subgroup action.

In this way, he provides a linkage whereby communication and the exercise of influence can be performed in both directions.

The leader is what might be called "group centered", in a sense comparable with the "employee centered" supervisor.

Reference: "New Patterns of Management" by Rensis
Likert. Published by: McGraw Hill Book
Company (1961).

pp. 165, 166, 167, 168, 169, 170, 171.

#### RESEARCH METHODOLOGY

- (1) To begin with Iresearched the various material available on the topic. Ample material was available in the library.
- (2) Questionnaires was distributed to approximately 50 firms both in the private and public sector. Unfortunately only 17 firms replied. The questionnaire was taken from the book written by Rensis Likert namely "THE HUMAN ORGANIZATION". Because this research was conducted in Turkey, the questionnaire was translated into Turkish before distributing it to the firms.

Unfortunately, because of the small sample size, the statistical techniques could not be applied. Had they been applied, the results obtained could have been very misleading. Consequently, emphasis was laid only on the questionnairing technique.

#### FINDINGS

Findings will be discussed under the following headings:

- A. Leadership Processes Used
- B. Character of Motivational Forces
- C. Charater of Communication Process
- D. Character of Interaction Influence
- E. Character of Decision Making Process
- F. Character of Goal-Setting of Ordering
- G. Character of Control Processes
- H. Performance Goals and Training

In integreting the tables, it should be noted that answers (a), (b), (c), and (d) correspond, respectively, to System 1, 2, 3, and 4.

## LEADERSHIP PROCESSES USED

The results of the findings with respect to the leadership processes used are summarized in Table A-1.

TABLE A-1 : Leadership Processes Used

		Super	riors	Subor	dinates
		Number	- %	Number	%
1.	Extent to which superior	าร	,		
	confidence and trust in				
•	subordinates				
a.	Have no confidence and				
	trust in subordinates		······	<del></del>	· \
b.	Have considering	* .		***	
	confidence and trust				
	such as master				
	has in servant			_ 1	5%
c.	Substantial but			•	
	not complete				*
	confidence and				
	trust, still wishes				
	to keep control of				
	decisions	13	77%	1.2	71%
d.	Complete confidence				
	and trust in all				
	matters	4	2 3%	4	24%
e.	No answers				·
2.	Extent to which				
	subordinates, in				
	turn, have confidence				
	and trust in				
- 4	superiors				

			Supe	riors	Subo	rdinates
			Number	%	Numbe	r %
a.	Have no confidence and					
	trust in superiors				·	
b.	Have subservient			· . · ·		
	confidence and trust,					
	such as servent has					
	to master				2	12%
c.	Display supportive					
	behaviour quite					
٠	generally		8	47%	8	47%
d.	Display supportive					
	behaviour fully and					
	in all situations		8	47%	6	35%
e.	No replies		1	6%	1	<u>68</u> `
3.	Extent to which					<b>\</b>
	superiors display					
	supportive behaviour					
	toward others					
a.	Display no supportive					
	behaviour or virtually					e e
	none				1	6%
b.	Display supportive					-
	behaviour in					
	condescending manner					
	situations only		2	12%	2	12%
c.	Display supportive base		.*			
	behaviour quite	• .				
	generally		8	47%	7	41%
d.	Display supportive					
	behaviour fully and	•				
	in all situations		7	41%	6	35% <sup>^</sup>
е.	No replies	1. *		· :	1	6%

		Superiors		Subordinates		
		Number	%	Number	%	
4.	Extent to which superiors					
	behave so that subordinates					
	feel free to discuss					
	important things about					
	their jobs with their	,				
	immediate superior					
a.	Subordinates do not feel					
	at all free to discuss					
	things about the job					
	with their superior	e e e e e e e e e e e e e e e e e e e		1_	6%	
b.	Subordinates do not feel					
	very free to discuss					
	things about the job					
	with their superior	3	18%	4	24%	
c.	Subordinates feel rather					
	free to discuss things					
	about the job with					
	their superior	9	53%	10	59%	
d.	Subordinates feel				•	
	completely free to discuss					
	things about the job with					
	their superior	4	24%	2	11%	
е.	No answers	1	5%			
5.	Extent to which immediate					
	superior in solving job proble	ems				
	generally tries to get subord	inate's		÷		
	ideas and opinions and make			•		
	constructive use of them					
a.	Seldom gets ideas and					
	opinions of subordinates					
	in solving job problems			1	6%	
b.	. Sometimes gets ideas and	<u></u>				
	opinions of subordinates					
	in solving problems			·		

	Superiors Subordinates
	Number % Number %
c. Usually gets ideas and	
opinions and usually	
tries to make	
constructive use of them	7 41% 7 41%
d. Always gets ideas and	
opinions and always tries	
to make contructive use	
of them	9 53% 9 53%
e. No answers	6%

Table A-l Leadership in Processes Used

The first variable measured by our questionnaire was "Leadership Processes Used".

The results show 4 important points to be noted:

(1) The superiors's answers indicate that they believe that their behaviour is "consultative or system 3" titled towards "system 4 or participative".

However the subordinates believe that the superior's style of management is also "consultative or system 3" but more inclined toward "system 2 or Benevolent Authoritative" rather than "system 4 or participative".

This result is significant because it shows difference in opinion between superior's and subordinates.

(2) The results show more wider range of responses as
far as subordinates are concerned. The results given
by superiors are generally less varied.

- (3) It is interesting to note that subordinates feel more free than the superior's think they do in discussing the problems with respect to their jobs.
- (4) Superiors consider themselves more supportive in behaviour than the subordinates believe them to be.

#### CHARACTER OF MOTIVATIONAL FORCES

The results of the findings with respect to the leadership processes used are summarized in Table A-2.

TABLE A-2: Character of Motivational Forces

	Superiors Subordinates
	Number % Number %
1. Underlying motives tapped	
a. Physical security, economic needs, and some use of the	
desire for status	1 6% 1 6%
b. Economic needs and moderate	
use of ego motives e.g.	
desire for status, affilia-	
tion, and achievement	8 47% 6 35%
c. Economic needs and	
considerable use of ego	
and other major motives	
e.g. desire for new	
experiences	5 29% 7 41%
d. Full use of economic ego,	
and other major motives,	
as, for example motivational	
forces arising from group goa	ls <u>1 6%</u>

	Superiors		Subordinates		
		Number	%	Number	%
	•				
e. No answers		2	12%	3	18%
2. Manner in which motives					
are used					
a. Fear, threats, punishment,					
and occasional rewards		1	6%	. 2	12%
b. Rewards, and some actual					
or potential punishment		4	24%	1	68
c. Rewards, occasional				,	
punishment, and some					
involvement		6	35%	_ 1	6%
d. Economic rewards based on	*	e fee			
.compensation system					1
developed through					
participation, group					
participation and	•				
involvement in setting					
goals, improving methods,					
appraising progress		e e Sa <b>n</b>	· · · · · · · · · · · · · · · · · · ·		2.5%
toward goals, etc		2	24% 11%		35% 41%
e. No answers				)	410
3. Kind of attitudes developed					
toward organization and					
its goals			•		
a. Attitudes usually are					
hostile and counter to					
organization's goals	•	· · · · · · · · ·		<del></del>	
b. Attitudes are sometimes				•	
hostile and counter to					
organization's goals					
and support the behaviour					
necessary to achieve them	•	1	6%	2	12%

		Superiors		Subordi	nates
		Number	%	Number	%
c.	Attitudes usually are				
	favourable and support				
	the behaviour necessary				
	to achieve them	1.2	71%	10	59%
d.	Attitudes are strongly				
	favourable and provide				
	powerful stimulations to				
	behaviour implementing				
	organization's goals	Ц.	23	<u> </u>	29%
e.	No answers			. ·	-
4.	Extent to which motivational	•			
	forces conflict with or	·		e e	
	reinforce one another	•			
_	Marked conflict of forces	er er			
a.					
	substantially reducing those motivational forces				
	leading to behaviour in				
	support of the organiza-			·       ·	6%
Ъ	tion's goals	<del></del>		<u> </u>	0.0
υ.	Conflict often exists,				
	occasionally forces will				
	reinforce each other, at			.3	18%
0	least partially Some conflict, but often				100
С,	motivational forces will				
	reinforce each other	· · · д·о · ·	71%	5 9	52%
d.		<u> </u>	7 1.7	) 3	327
u.	generally reinforce each				
	other in a substantial and				
	cumulative manner	· · · · · <u>·</u> L· · ·	249	& 4	24%
<b>A</b>	No answers		<u> 5</u> %		270
€.	110 CITOMOTO	L			

Superior

Subordinate

# % Number Number 5. Amount of responsibility felt by each member of organization for, achieving organization's goals a. High levels of management feel responsibility, lower levels feel less, rank and file feel little, and welcome oppurtunity to behave in ways to defeat organization's goals 17% 6% 1 b. Managerial personnel usually feel responsibility, rank and file usually feel relatively little responsibility for achieving organization's goals 24% 24% c. Substantial proportion of personnel especially at higher levels, feel responsibility and generally behave in ways to achieve the organization' s goals 7 41% d. Personnel at all levels feel real responsibility for organization's goals and behave in ways to implement 18% them e. No answers

		Superi	or .	Subordi	nate
		Number	%	Number	<del>%</del>
6.	Attitudes toward other members of the organization	•			
a.	Subservient attitudes toward superiors coupled with hostil hostility toward peers and contempt toward subordinates,	ity,			
b.	distrust is widespread Subservient attitudes toward superiors, competition for status resulting in hostility toward peers, condescension			3	18%
с.	toward subordinates Cooperative, reasonably favourable attitudes toward	_1_	6%		<del> </del>
	others in organization, may be some competition between peers with resulting hostilit and some condescension toward	•			
	subordinates	3	189	<u> </u>	29%
d.	Favourable, cooperative attitudes throughout the organizations with mutual				
0	trust and confidence No answers	<u>12</u>	70		- 47% 6%
e. 7.	Satisfaction derived	-11:		0 1	0.0
a.	Usually dissatisfaction with membership in the organization, with supervision, and with one's own achievements		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

		Superior		Subordinates		
	<u>N</u>	umber	%	Number	%	
b.	Dissatisfaction to					
	moderate satisfaction					
	with regard to membership					
	in the organization,					
	supervision, and one's own					
	achievements			3	18%	
c.	Some dissatisfaction to					
	moderately high satisfac-					
	tion with regard to member-					
	ship in the organization,					
	supervision and one's own					
	achievements	. 8	47	7% 5	29%_	
d.	Relatively high satisfac-					
	tion throughout the					
	organization with regard to					
	membership in the organization,		• .			
	supervision, and one's own	•				
	achievements		5	3% 9	5 3%	
е₽	No answers				,	

Character of Motivational Forces

The results of this variable i.e. "Character of Motivational Forces" were surprising in two respects

- a. There was a wide divergence of opinion between superiors and subordinates in most of the questions.
- b. The number of "no replies" was more in this variable than under any other variable.

The results show that 3 important points should be noted.

1. 47% of the superior's believe that they use system 2 regarding "underlying motives tapped". Only 29% of the superior's believe that they use system 3.

On the other hand, 41% of the subordinates believe that the superior's use system 3 regarding "underlying motives tapped". Only 35% of the subordinates believe that superior's use system 2.

2. In reply to the question "manner in which motives are used", 41% of the subordinates abstained. 35% were of the opinion that system 4 is used.

However, as far as superiors are concerned, 35% believe that system 3 is used and only 24% believe that system 4 is used.

3. The management style is "consultative or system 3" as indicated by results. However, again the results indicate that superiors consider wheir management behaviour to be tilted towards system #. On the other hand, subordinates believe that superior's management style is tilted toward system 2.

## Table C-1

## CHARACTER OF COMMUNICATION PROCESS

The results of the findings with respect to the character of Communication Process are summarized in Table C--l

Table C-1 Character of Communication Process

	Supe	Superior		tes
	Number	Percentage	Number	Percentage
1) Amount of interact	ion			
and communication			÷	
<pre>aimed at achieving organization's</pre>				
objectives.		e grande de la companya de la companya de la companya de la companya de la companya de la companya de la compa La companya de la co		
a. Very little			1	6%
b. Little	3	18%	5	29%
c. Quite a bit	8	47%	7	41%
<pre>d. Much with both   individuals and</pre>	1			
groups	6	35%	4	24%
e. No Answers	· · · · · · · · · · · · · · · · · · ·		· ·	
2) Direction of Information flow				
a. Downward	3	18%	2	12%
b. Mostly Downward	1 <u>1</u>	6%	_ 1	6%
c. Down and un	5	29%	8	47%

		Supe	erior	Subor	dinate	
	Nu	mber	Percentage	Number	Percentage	
d. Down, up,	and with					
neers	·	8	47%	5	29%	
e. No Answers			-		6%	
3) Downward comm	unication					
i. Where init	iated					
a. At top of organizati	on or					
to impleme <b>direct</b> ive	nt top —	2	12%	4	24%	
<ul><li>b. Primarily or nattern communicat</li></ul>	ed on					
from top	-	3	18%	5	29%	
c. Patterned communicat from top b	ion					
with some initative	<b></b>					
lower leve		6	35%	2	12%	
d. Initiated			-			
all levels		6	35%	5	24%	
e. No Answers	3		,	<u> </u>	6%	
i. Extent to superiors share info	willin <b>g</b> ly ormation					
with subor	rdinates					
a. Provide mi				1	6%	
b. Gives subconly information	rmation					
superior :	reer mey	4	24%	5	29%	

	Superiors		Subordinates		
	Number	Percentage	Number	Percentage	
<ul><li>c. Gives information needed and answers most questions</li></ul>	7	41%	7 ~~	41%	
d. Seeks to give subordinates all velevant information and all information they want		35%	4	24%	
e. No Answers		· · · · · · · · · · · · · · · · · · ·			
iii. Extent to which communications are accepted by subore					
<ul><li>a. Viewed with great suspicion</li></ul>	***************************************				
<pre>b. Some accepted and    Some viewed with    suspicion</pre>			1	6%	
c. Often accepted but if not, may or may not be openly questioned.		12%	5	29%	
d. Generally acented but if not, openly and candidly questioned		88%	11	65%	
e. No Answers	<u>·                                      </u>	· .			
4) Upward communication  i. Adequacy of  upward communicat  via line organiza	ion				
a. Very little	1	6%	.1	6%	

		Superiors		Subordinates	
		Number	Percentage	Number	Percentage
b.	Limited	4	24%	4	_24%
С.	Some	6	35%	8	47%
d.	A greatideal	5	29%	4	23%
e .	No Answers	1			
ii.	Subordinates feeling of Responsibilty for initiating accurate upward communication				
a.	None at all		***************************************	· .	_
b.	Relatively little usually communicate "filtered" information and only when required may yes the "boss"	tes ation uested;	6%	3	17%
c.	Some to Moderate degree of Respons to initiate accur upward communicat	ate	24%	4	24%
d.	Considerable Resp felt and much ini group communicate all relevant information	tiative;	65%	10	59%
e.	No Answers	1	5%		

iii. Forces leading to
 accurate or distorted
 upward information

	Su	perio	ors	Subordi	nates
a.	Powerful forces to distort information	<u>r</u>	Percentage	Number	Percentage
	and deceive superiors_		· <del>except in a little of the control</del>		***************************************
ь.	Many forces to distort; also forces for honest communication				11%
	Occasional forces to distort along with many forces to communicate				
	accurately	)	29%	4	24%
d.	Virtually No forces to distort and powerful forces to communicate accurately 12	2	71%	11	65%
e.	No Answers				
iv.	Accuracy of upward communication via line				-
a.	Tends to inaccurate				
b.	boss wanto to hear flows; other information is restricted and				
;	filtered			<u> </u>	6%
С.	Information that boss want to hear flows; other information may be initiated				
	or cautiously given5		29%	2	12%

		Supe	rior	Subor	dinate
		Number	Percentage	Number	Percentage
d.	Accurate	12	71%	13	76%
e.	No Answers			1	6%
٧.	Need for supplementary upward communicati	on			
a	system Great need to				
	spplement upward communication syst by spy system, sug	-			
	system, and similadevices	22	12%	nggangan and an ang and an ang	· · · · · · · · · · · · · · · · · · ·
<b>b</b> .	Upward communication often supplemented by suggestion system and similiand devices		41%	10	59%
C.	Sl ight need for supplementary system; suggestion system may be used	n	41%	7	41%
d.	No need for any supplemenary system				
е.	No Answers	1	6%		
it ac	ideward Communication  ts adequacy and  ccuracy.  Usually Poor  because of  Competition betweeners, correspond	en			

hostility

		Super	ior	Subordinate	
		Number	Percentage	Number	Percentage
	b. Fairly Poor because	e			
	of competition		0		0
	between neers	3	18%	4	24%
	c. Fair to good	10	59%	12	70%
	d. God to excellent	4	23%	1	6%
	e. No Answers	-			
6)	Psychological closene	SS			
	of superi ors to			,	
	subordinates (i.e. friendiliness between				
	superiors and subordi		•		
	a. Far apart	· · · · · · · · · · · · · · · · · · ·			•
	b. Can be moderately				
	close if proper				
	voles are kept	2	12%	5	30%
	c. Fairly close	7	41%	6	35%
	d. Usually very				
	close	8	47%	6	35%
	e. No Answers		· · ·		
	i. How well does		,		
	superior know				
	and understand				
	problems faced by				
	subordinates?		• •		
	a. Has no knowledge (	or	•		
	understanding of				
	problems of				
	subordinates			1	6%

		Supe	rior	Subord	inate
		Number	Percentage	Number	Percentage
b.	Has some knowledge and understanding of problems of subordinates	4	24%	2	12%
c.	knows and understand problems of subordinates quite well	nds 5	29%	8	47%
d.	knows and underst problems of subordinates very well	and	41%	6	35%
e. ii.	No Answers How accurate are the perceptions by superiors and subordinates of each other?	1	6%		
a.	often in error			1	6%
b.	often in error on some points	2	12%	1	6%
C.	Moderately Accuvate	3	18%	6	35%
d.	Usually quite accurate	12	70%	9	53%
e.	No Answers		-		

### Character of Communication Process

The management style is again system 3 as indicated by questionnaires results. However, there is a difference of percentages. It is interesting to note that in those questions (e.g. Subordinates feeling of Responsibility for initiating accurate upward communication) where subordinates integrity comes to be questioned their responses have tilted towards system 4.

## Table D-1

#### CHARACTER OF INTERACTION - INFLUENCE

The results of the findings with respect to the character of internaction-influence are summarized in Table  $\,$  D-1  $\,$ 

## TABLE D-1 CHARACTER OF INTERACTION - INFLUENCE

₹:		Super	ior	Subordin	ates
		Number	Percentage	Number	Percentage
1)	Amount and character of interaction.				
	a. Little interaction and always with fear and disaster.			1	6%
	<ul><li>b. Little interaction and usually with some condescension</li></ul>				
	by superiors, fear and caution by subordinates				
	c. Moderate Interaction often with fair amount of confidence				
	and trust	11	65%	7	41%
	d. Extensive, friendly				
	interaction with high degree of confidence and				
	trust.	6	35%	8	47%
	•				

	Supe	erior	Subo	rdinates
the second secon	Number	Percentage	Number	Percentage
e. No Answers			1	6%
2) Amount of cooperative teamwors present	e			
a. None				
b. Relatively little			. 4	23%
c. A moderate Amount	10	59%	9	53%
d. Very substantial amount throughout the organization	: 7	41%	4	24%
		410	4	Z 4 0
<ul><li>e. No Answers</li><li>3) Extent to which</li></ul>	·			
subordinates can influence the goals methods, and activit of their units and departments (i) As seen by superiors				
a. None				
b. Virtually None	***************************************			·
c. Moderate Amount	7	41%		
d. A great deal	10	59%		
e. No Answers				
ii.As seen by subord	inates			
a. "None except through informal organization" or				
via unionization			1	6%
<ul><li>b. Little except</li><li>through"informal</li><li>organization" or</li><li>via unionization</li></ul>			2	12%

		Super	rior	Subordin	ate
		Number	Percentage	Number	Percentage
		Moderate amount both directly and via unionization		8	47%
		Substantial amount both directly and via unionization (where it exists)		5	29%
	e.	No Answers	***************************************	1	6%
4)	whi exe	ount of Actual influence ich superiors can ercise over the goals, tivity, and methods of eir units and departments			
	a.	Believed to be substantial but actually moderate unless capacity to exercise severe punishment is present.		1	6%
	b.	more than moderate especially for higher	12%		7.00
	c.	levels in organization 2  Moderate to substantial,	126	2	12%
		especially for higher levels in organization ll	65%	8	47%
	d.				
		system 4	23%	5	29%

	´ <u>Su</u> j	perior	Subor	dinate
	Number	Percentage	Number	Percentage
	e. No Answers		1	6%
5)	Extent to which an effective structure			
٠	existis enabling one part of organization			
	to exert influence upon other parts			
	a.Effective structure virtually not present2	12%	3	18%
	<pre>b.Limited capacity   exists, influence   exerted largely</pre>			
	via vertical lines and parimarily			
	downwards 2	12%	<u></u> _	24%
	c. Moderately effective structure exists, influence exerted			
	largely through vertical lines 6	35%	. 3	18%
	d. Highly effective structure exists of influence in			
	all directions 7	41%	5	29%

e. No Answers

11%

# Character of Interaction - Influence.

The results show system 3 (consultative.) style of Management. The sperior's answers are tilted towards system 4 whereas subordinates answers are tilted towards system 2.

#### TABLE E-1

## CHARACTER OF DECISION MAKING PROCESS

The result of the findings with respect to the character of Decision Making Process are summarized in Table  $E-\ 1$ 

TABLE E- 1

### CHARACTER OF DECISION MAKING PROCESS

At what levels are decisions formally made?  a. Bulk of decisions at top of organization 5 29% 8 47%  b. Policy at top, many decisions withim prescribed framework made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%	T T TIMEN	CITTIMICI	IN OF DECISION	111111111111111111111111111111111111111	KOCHDO
Number Precentage Number Percentage  At what levels are decisions formally made?  a. Bulk of decisions at top of organization 5 29% 8 47%  b. Policy at top, many decisions withim prescribed framework made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%			•		
At what levels are decisions formally made?  a. Bulk of decisions at top of organization 5 29% 8 47%  b. Policy at top, many decisions withim prescribed framework made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%		Sup	perior	Subordin	ates
At what levels are decisions formally made?  a. Bulk of decisions at top of organization 5 29% 8 47%  b. Policy at top, many decisions withim prescribed framework made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%					
decisions formally made?  a. Bulk of decisions     at top of     organization		Number	Precentage	Number	Percentage
at top of organization 5 29% 8 47%  b. Policy at top, many decisions withim prescribed framework made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%	decisions form				
many decisions withim prescribed framework made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%	at top of		29%	8	47%
made at lower levels but usually checked with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%	many decisi	ons			
with top before action 5 29% 4 24%  c. Broad Policy decisions at top, more specific decisions at lower levels 7 42% 4 24%	made at low				
at top, more specific  decisions at lower levels 7 42% 4 24%	•		29%	Ц	24%
decisions at lower levels 7 42% 4 24%					
			7 42%	4	24%

		Superior		Subordinates		
		Number	Percentage	Number	Percentage	
<b>C</b>	d.Decision Making widely done through out the organization, althou	ugh				
	well integrated.  through linking property overlaps					
	groups			1	5%	
	e. None Answers					
	How accurate and adequate is the information					
,	available for decision making at the place where					
	decisions are made?					
	<ul><li>a. Information is generally inadequat and inaccurate</li></ul>	е				
	<ul><li>b. Information is often somewhat inadequate and</li></ul>					
	inaccuvate	·	المنافع والمراجع والم	3	17%	
	c.Reasonably adequate and accurate					
	information available	10	59%	10	59%	
	d.Relatively complete and accurate Information availab available based both on measurements and					

	Supe	erior	Subor	dinate
	Number	Percentage	Number	Percentage
efficient flow of				
information in				
organization	6	35%	Ц.	24%
e. No Answers	1	6%	·	
3) To what extent are decision makers				
aware of Problems, particularly those		•		
at lower levels in the organization?				
<ul><li>a. Often are unaware or only partially aware</li></ul>	e 			1
b. Aware of some, unaware of				
others	1	6%	3	17%
<pre>c. Moderately   aware of Probles</pre>	2	12%	2	12%
<pre>d. Generally   quite well aware   of Problems</pre>	14	82%	12	71%
e. No Problems				
4) Extent to which technical and				
Professional knowledge is used in decision				
making?				
a. Used only if				
Possessed at higher levels	1	6%	4	24%

	Super	Superior		Subordinate	
	Number	Percentage	Number	Percentage	
b. Much of what is available in higher and middle levels is used	3	18%	8	47%	
<pre>c. Much of what is    available in   higher; middle,   and lower levels   is used</pre>	5	29%	1	6%	
<pre>d.Most of what is    available anywhere   with in the   organization is   used</pre>	8	47%	<b>4</b>	24%	
e. No Answers				and the second s	
5) Are decisions made at the best level in the organization as far as of most and inform (i)  Availability of the most adequate and accurate informate bearing on the decision.					
a. Decisions usually at levels apprecia higher than levels where most adequate and accur information exists	bly	12%			

	Superior	Subordinate	
<u>Numbe</u>	er Percentage	Number Pe	rcentage
<pre>b. Decisions often   made at levels</pre>			
appreciably higher than levels where			
most adequate and accurate			
information exists $\underline{}$	_ 6%	4	24%
c. Some tendency for decisions to be made at higher levels			
than where most adequate and accurate			
information exists 9	53%	7	41%
d. Overlapping group			
and group decision processes tend to			
push decisions to point where			
information is most adequate or			
to pass the relevant information	· · · · · · · · · · · · · · · · · · ·		÷
to the decision			
making point	5 29%	<u>.</u> 5	29%
e. No Answers		1	6%
ii The motivational			

ii. The motivational
consequences (i.e.
does the decision
making process help
to create the
necessary
motivations in those
persons who have to
carry out the decisions.)

	Superiors		Subordinate	
	Number	Percentage	Number	Percentage
a. Decision making contributes little or nothing to the mativation to implement the decision, usually yields adverse motivation				
<ul><li>b. Decision making contributes velatively little motivation</li></ul>			4	24%
c.Some contribution by decision making to motivation to implement	7	41%	7	41%
d. Substantial contribution by decision making to motivation to implement	10	59%	6	35%
e. No Answers 5) To what extent are subordinates involve indecisions velated to their work?	d			
a. Not at all			5	29%
<ul><li>b. Never involved in decisions;</li><li>occasionlly consulted</li></ul>			· · · · · · · · · · · · · · · · · · ·	

6

\_ TT4 \_

Superiors

Subordinate

#### Number Percentage Number Percentage c. Usually are consulted but ordinarily not involved in decision making 53% 47% d. Are involved fully in all all decisions velated to their work 7 41% 18% 3 6% e. No Answers 6% 7) Is decision making based on man-to-man or group pattern of operation? Does it encourage or discourage teamwork? a. Man-to-man only, discourages teamwork 6% b. Man-to-man almost entively, discourages temwork 18% c. Both man-to-man and group, partially encourages teamwork 10 59% 6 35% d. Largely based on group pattern, encourages 29% teamwork 47% 1 6% e. No Answers

#### CHARACTER OF DECISION MAKING PROCESS

The answers to the variable "character of decision making process" have been surprising in some ways.

- 1- 42% of the superior's answered "Broad policy at top, more specific decisions at lower levels".

  29% of the superior's answered that bulk of decisions are made on the top (system 1.)

  29% of sepior's answered that system 2 is followed.

  On the other hand, 47% of the subordinates feel that decisions are made at the top. 24% of subordinates fell that system 2 is followed.

  Moreover 24% of subordinates feel that system 3 is followed.
- 2- In reply to the question, "Extent to which technical and professional knowledge is used in decision making".
  - 47% of superiors favoured system 4
    29% of superiors favoured system 3
    As regards subordinates are concerned,
    47% were of the opinion that system 2 is used.
    24% were of the opinion that system 1 is used.
- 3- 29% subordinates felt that they were not at all involved in decision making related to their work.

On the other hand superior's answers were to
the contrary

4- In veply to the question, " Is decision Making based on man-to-man or group pattern of operations? Does to encourage or discourage team work?"

59% of superiors answered in favour of system 3.
29% of superiors answered in favour of system 4.
Whereas 47% of subordinates answered in favour of system 4 and 35% subordinates favoured system 3.

#### TABLE F-1

# CHARACTER OF GOAL SETTING OR ORDERING

The result of the findings with respect to the character of goal setting or ordering are summarized in Table F.1

TABLE F-1 CHARACTER OF GOAL SETTING OR ORDERING

		Supe	rior	Subordina	te
		Number	Percentage	Number:	Percentage
1)	Manner in which usually done	· · · · · · · · · · · · · · · · · · ·			
	a. Orders issued			5	29%
	b.High goals sought by top and often resisted moderately by subordinates	22	11%	1	6%
	c. Goals are set or orders issued after discussion with subordinates of Problems and Planned action	11	65%	8	47%
	d. Except in emergencies, established by means of group Participation	Ц.	24%	3	8%

			Super	riors	Subordi	nates
÷			Number	Percentage	Number	Percentage
	e. No Answ	ers	Northean Article Landson			
2)	To what exthe differ hierarchia tend to stable high performances.	rent al levels crive for				
	and of	by top ften ed tely by			3	18%
	but wi occasi resist	by levels th	10	59	11	65%
	at all with l someti	oals sought levels, ower levels mes pressing gher goals	5			
		op levels	7	41%	3	17%
	e. No Ans	wers	Marie 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18 -			

	Supe	eriors	Subor	dinates
	Number	Percentage	Number	Percentage
3) Are there forces tee accept, resist, orreject goals?				
a. Goals are overtly accepted but ofter covertly resisted strongly			2	12%
b. Goals are overtly accepted but ofter covertly resisted to at least a moderate degree	1			
c. Goals are overtly accepted but at times with some covert resistance	9	53%	11	65%
<pre>d. Goals are fully     accepted both     overtly and     covertly</pre>	7	41%	4	23%

6%

e. No Answers

### CHARACTER OF GOAL SETTING OR ORDERING

The results indicate that system 3 (Consultative) is followed in Turkey.

### TABLE G-1

#### CHARACTER OF CONTROL PROCESSES

The results of the findings with respect to the character of goal setting or ordering are summarized in Table G-1

### TABLE G-1 CHARACTER OF CONTROL PROCESSES

	Superi	lor	Subord	inate
	Number	Percentage	Number	Percentage
1) At what hierarchial				
levels in organization does major or primary				
concern exist with regard to the			•	
performance of the control function				
a. At the very top only				
<ul><li>b. Primarily or largely at</li></ul>				
the top			4	24%
<ul><li>c. Primarily at the top but some shared feeling of</li></ul>				
Responsibility felt at Middle				
and to a lesser				
extent at lower le	evels <u>l4</u>	82%	- 9	52%

	Superiors		Subordinates		
	Number	Percentage	Number	Percentage	
d. Concern for performance of Control functions likely to be felt throughout the organization	3	18%	4	24%	
e. No Answers					
2)How accurate are the measurments and i nformation used to guide and					
perform the control function, and to what extent do forces exist in the organization to distort and falsify this information?					
a. Very strong forces exist to distort and falsify; as a consequence measurements and information are usually incomplete and often inaccurate.			1	6 %	
b. Fairly strong forces exist to distort and falsify; hence information are often incomplete					
and inaccurate.	<u> </u>	6%	2	12%	

	Sup	Superior		dinates
	Number	Percentage	Number	Percentage
C.	Some pressure to protect self and collegues and hence some pressure to distort; information is only moderately complete and contains			
	some inaccuracies 7	41%	5	29%
d.	Strong Pressures to dotain complete and accurate information to guide own behaviour and behaviour of own			
	and related work groups; hence information and			
	measurements tend to be complete and			
	accurate. 9	53%	9	53%
e.	No Answers			
th <b>c</b> c	tent to which e review and entrol functions be concentrated.			
a.	Highly concentrated in top management 2	12%	2	12%
ъ.	Relatively highly			
	concentrated, with some delated control to middle and lower			
	levels 3	18%	7	41%
C.	. Moderate downward delegation of review			e e e e e e e e e e e e e e e e e e e

and control processes, lower as well as higher

- 1.24 -

	Super	rior	Subo	rdinate
<u>Num</u>	ber	Percentage	Number	Percentage
levels perform these tasksl	.2	70%	4	24%
d. Review and Control done at all levels with lower units	,			
at times imposing mor e rigorous reviews and tighter controls than top				
management	olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi olempi		4	23%
e. No Answers	(a-y-a-y-a-y-a-y-a-y-a-y-a-y-a-y-a-y-a-y			
4) Extent to which there is an informal organization present and				
supporting or opposing goals of formal organization		•		
a. Informal organization Present and opposing goals of formal organization	1	6%		
<pre>b.Informal organization   usually present and   partially resisting</pre>				
goals	_1	6%	2	12%
c. Informal organization may be present and may either support or partially resist goals of formal	: :			
organization	6	35%	2	12%

<b>v</b>	Superi	lors	Suppor	ting
	Number	Percentage	Number	Percentage
d. Informal and formal organization are one and the same; hence all social forces support efforts to achieve organization's				
goals	7	41%	. 6	35%
e. No Answers	2	12%	7	41%
5) Extent to which contradata(e.g. accounting Productivity, cost, are used for self-quadrate or group problem solve by managers and non-semployees, or used by superiors in a punitary policing manner.	, etc.) idance ving supe <b>ro</b> iso	ry		
<ul><li>a. Used for policing and in punitive</li><li>manner</li></ul>			1	6%
b. Used for policing coupled with rewar and punishment, sometimes punitive used sometimes for guidance but in accord with others	d ly;	18%	1	6%
c. Used for policing with emphasis usually on reward but with some punishment, used for guidance in				

	Superiors		Subordinates	
	Number	Percentage	Number	Percentage
accord with others;				
some use also for				
self-guidance	2	12%	3	18%
d. Used for self-				
guidance and				
for coordinated				
problem solving				
and guidance;				
not used punitivel	y. 12	70%	9	53%
e. No Answers	the state of the s		3	17%

#### CHARACTER OF CONTROL PROCESSES

The answers to this variable have not shown consistent pattern.

l- In veply to the question "Extent to which the
review and control functions are concentrated."

70% of the superiors favoured system 3. Where as 41% of subordinates feel that system 2 is flowed

24% of subordinates feel that system 3 is followed.

23% of subordinates feel that system 4 is followed.

2- In veply to the question, "Extent to which there is an informal organization present and supporting or opposing goals of formal organization."

35% of superiors replied for system 3.

41% of superiors replied for system 4.
where as 35% of subordinates replied for system 4. and
41% of subordinates did not answer the question.

3- Another interesting feature is that in reply to the question,

"Extent to which control data are used for selfquidance or group problem solving by managers and nonsupervisory employees, or used by superiors in a punitive, policing manner."

70% of superiors answered for system 4.

53% of subordinates answered for system 4.

# TABLE H-1 PERFORMANCE GOALS AND TRAINING

The results of the findings with respect to the Performance Goals and Training are summarized in Table H-1

# TABLE H-1 PERFORMANCE GOALS AND TRAINING

	Superior		Subordinates	
	Number	Percentage	Number Pe	ercentage
1) Level of Performance goals which superiors seek to have organization achieve				
a. Seek average goals	s <u>1</u>	6%	3	18%
b. Seek high goals	9	53%	10	59%
c. Seek very high goals	6	35%	3	17%
d. Seek to achieve extremely high		•		
goals	1	68	1	6%
e. No Answers				

2) Extent to which you have been given the kind of Management training you desire.

	Superiors		Subordinates	
	Number	Percentage	Number	Percentage
<ul><li>a. Have received no management training of kind and desire</li></ul>			3	18%
b. Have received some management training of kind and desire	14	24%	5	29%
c. Have received quite a bit of management training of kind an desire		65%	6	35%
d. Have received a great deal of management training of kind and desire	2	11%	1	6%
e. No Answers			2	12%
Andequacy of traini ng Resources provided to assist you training your subordinates				
a. Training Resources provided are only fairly good	1	6%	3	18%
<ul><li>b. Training Resources</li><li>Provided are good</li></ul>		59%	8	47%
<ul><li>c. Training Resources</li><li>Provided are very</li><li>good</li></ul>	s 5	29%	4	24%
d. Training Resource: Provided are excellent	s 1	6%		
e. No Answers			2	11%

### PERFORMANCE GOALS AND TRAINING

The pattern of Answering have been consistent. Both supe riors and subordinates feel that system 3 is being followed with regard to this variable.

In conclusion, it can be said that System 3 is typical of Turkish managers. However, superiors are inclined towards System 4 while subordinates are inclined towards System2

Within this framework, however, it must be pointed out that managerial behavior seems to vary by organizational variables. Different Systems are utilized for different organizational variables; managers seem to shift from System 1 to System 4 frequently. This is in contradiction to Likert's basic assumption that managers' behavior should follow a consistent pattern, and that they should apply a system more or less in totality. Since Likert argues that if the systems are not implemented in full, their advantages will not be materialized, the broad range of switching from one system to another in Turkey promises a large degree of inefficiency and ineffectiveness.

This study does not present any data to indicate directions of change in managerial behavior. However, other studies have shown authoritarian. The present findings indicate that some change has and is occurring toward System 3. If this frend continues, as it has happened in highly industrialized countries, one may expect the shift toward System 4. For managers and firms who are nearing that stage, two recommendations are in order:

- 1) A sufficient time interval ought to be provided rather than jumping into System 4 in fullspeed.
- 2) Not some but all organizational variables should eventually be greated for System 4.

#### APPENDIX I

#### TABLE OF ORGANIZATIONAL VARIABLES

It is highly useful for research and operating purposes to have a framework for considering organizational variables. The following table has been repared for this purpose and presents what is judged to be a common pattern.

In employing this table in an enterprise, the appropriateness of this classification of items into causal, intervening, and end-result categories should be tested by obtaining and analyzing periodic measurements from that firm or department. Such analysis will department the actual pattern of relationshins which exist among the organizational variables at that time. The highly interdependent, interacting character of most of the organizantional variables makes this testing from time to time of the intervelationships among them in a specific situation desirable.

## I. CAUSAL VARTABLES

Each variable is a continuum from highly avourable to highly unfavourable. These variables apply to the organization as a whole, to departments or divisions, and, where indicated, to each superior.

- (A) Policies, Philosoply, and values reflected in behaviour
  - 1. Extent to which the **p**rinciple of supportive relationships permeate your company
    - (a) In dealing with all relevant persons

- (i.) Employees (Subordinates, peers, superiors, and)

  (all others among whom interaction occur)
- (ii) Customers and the public.
- (iii) Unions
- (iv) Suppliers
- (v) Other organizations(b) In every appropriate way and situation
- (1) To what extent are measurements used throughout your organization for self guidance in the total organization (or any subdivision there of) and not for punitive purposes or control by the superior?
- (2) To what extent, within the limits of financial.

  resources, does your organization (and each superior)

  make available to each work group the equipment,

  material, and resources required to do its job?
- (3) To what extent does your organization (and your superior) have contagious enthusiasn regarding the importance and significance of the organization's mission?
- (4) To what extent does your organization (and your superior.)

  try to understand your problems and do something among
  them?
- (5) How interested is your organization (and your superior.) in helping you with your personal and family problems?
- (6) How free do you feel to approach your superior and to communicate with him? Is he friendly and easily approached?

- (7) How well does he listen to you?
- (8) To what extent are members of your of your organization interested in listening to you?
- (i) Are they (and your superior) interested in lenowing about your problems?
- (ii) Are they (and your superior.) interested in suggestions?
- (iii) Do they (and your superior) ask your opinions when a problem comes up which involves your work?
- (iv) Do they (and your superior) value your ideas, seek them, and endeavor to use them?
- (9) Is your organization (and your sperior) eager to provide you with information important to you?
- (i) To what extent does your organization (and your superior) try to been you informed about matters related to your job?
- (ii) How fully does your organization (and your superior.)
  share information with you about the company, its
  financial condition, earnings, etc., or do they been
  such information to themselves?
- (iii) If there is information which you need or desire and your superior does not possess, does he try to obtain it for you?
- (10) To what extent does confidence and trust permeate your organization?
- (i) To what extent does your organization (and your superior) give you opportunity to learn by doing, including the fredom to makes mistakes and to learn from them?

- (ii) If you make a mistake, to what extent is it treated as an opportunity for you to learn, or is it handled punitively?
- (iii) To what extent are you free to set your own pace, or are your activities circumscribed by controls which reflect little confidence and trust in you?
- (iv) To what extent are you under unreasonable hierarchial pressure to produce?
- (v) To what extent are you under general supervision rather than close, detailed supervision?
- (vi) To what extent is your superior employee-centered rather than process-centered?
- (vii) To what extent do you feel that your organization (and your superior) is sincere in dealing with you rather than being manipulative?
- (viii) To what extent does it (he) display confidence in your integrity?
- (11) To what extent are you treated as a human beign rather than just another person to get the work out?
- (12) To what extent does your organization (and your superior) convey to you a feeling of confidence that you can do your job successfully?
- (i) Does your superior's behaviour convey to you that he has complete confidence in your capacity?
- (ii) Does your superior expect the "impossible" and fully believe you can and will do it?
- (iii) Does he give you candid, sincere criticism and suggestions for improvement but with an orientation

- that you have greater potential than you have yet realized?
- (iv) To what extent do you feel your organization (and your superior) will back you and support you on any matter?
- (13) How much help do you get from your organization (and your superior) in doing your work?
- (i) How much is it (he) interested in training you and helping you learn better ways of doing your work?
- (ii) How much does your superior help you solve your problems constructively - not tell you the answers, but help you think through your problems?
- (14) To what extent is your organization (and your superior) interested in helping you get the training which will assist you in being promoted?
- (15) How receptive is your organization (and your superior) to being influenced by you?
- (i) will it (he) give serious considerations to matters you present?
- (ii) Is it (he) inflexible, or will your proposals be weighted in a reasonable manner?
- (16) To what extent does your organization (and your superior)
  hold group meetings to make decisions and solve workrelated problems? Are such meetings worthwhile?
- (i) Does your organization (and your superior) help each group, including yours, develop skill in reaching sound solutions?

TOO -

- (ii) Does your organization (and your superior) help each group, including yours, develops its skills in effective interaction and in becoming a well -knit team rather than developing hostile subfaction?
- (iii) Does your organization (and your superior) use the ideas and solutions which omerge, and does it (he) also help each group to apply its solutions?
- (17) To what extent does your organization (and your superior) strive to see that you receive equitable compensation for your work? Is it (he) interested in helping you to achieve and and maintain a good income?
- (2) Extent to which your organization (and your superior)

  has high standards; extent to which high standards are

  held with egard to
- (a) The company as a total institution and its general reputation (e.g. being a highly respected firm).
- (b) Performance levels (e.g.high productivity gools)
- (c) Quality of Product and services
- (d) Scrap and waste
- (e) Customer service
- (f) Goods from suppliers
- (g) Quality of equipment and technology
- (h) Quality equipment, plant, etc.
- (i) Quality of Personnel (selection)
- (j) Quality of Personnel development (training)
- (k) Level of "cooperative working relationships" (Cooperative working relationships are defined as the high level of confidence and trust, loyalties, and favourable and

- highly effective groups and highly effective interactioninfluence system)
- (e) Creativity, innovativeness (e.g., seeks constantly through R and D to improve products, processes, marketing, etc).
- (3) Extent to which the organization uses multiple overlapping group structure.
- (a) The group rather than the individual is the building block
- (b) The superior usually serves as vertical linking rin.
- (c) Lateral coordination is facilitated through appropriate cross-function linking groups.
- (4) Extent to which group decision making and group

  methods of supervision are used by your organization

  (and your superior)
- (a) Extent to which your organization (and your superior.)

  uses group decision making in such cycles of activity
  as the following: Setting organizational objectives;
  establishing departmental and subunit goals; deciding
  upon equipment, technology, methods, job organization
  etc.; acting on selection and promotion, including
  peer participation in selection and use of peer and
  subordinate along with superior reactions in decisions
  on promotion; evaluating goals, procedures, etc. for
  a new cycle; deciding upon the compensation and reward
  system and the principles and procedures used in

subdivision there of) to guide decision making and behaviour in most efficient manner; extent to which your organization (and your superior) makes relevant measurements available to each unit or subunit for self-guidance and does not use them for punitive purposes.

- (7) Extent to which your organization applies elementary principles of organization
- (a) Extent to which each member of your organization has a reasonably clear, unambiguous, and functionally appropriate role in the organization and concept of it.
- (b) Extent to which each person has a correct understanding to the roles of those other persons with whom his own role requires him to interact.
- (c) Extent to which person is well trained for his role and taks
- (d) Extent to which work and jobs are organized well, planning done well, etc.
- (8) Extent to which your organization seeks to be technologically well equipped and constantly seeks to improve via

  Research and development and emphasis on innovation.
- (9) Extent to which your organization expects each manager or superior in ways consistent with the organization's philosophy and values and encourages and faculitates productive problem solving to achieve this objective, including providing such resources as the relevant

# measurements to assist such problem-solving activities.

- (10) Extent to which there is sufficient stability in personnel assignments and investment in organization building to create highly effective cooperative working relationships, even though rotation is used for training purposes.
- (11) Extent to which your organization seeks to minimize the adverse effect of size by taking such steps as
- (i) Creating many small units (e.g plants) instead of a few large ones (within the limits of the technology and of low unit cost operation)
- (ii) Using multiple overlapping group structure, group decision making, and principle of supportve relation ships.

(B)

- (1) Technical matters
- (i) Technical and professional problems and techology, including research and development.
- (ii) Processes
- (iii) Equipment
- (iv) Raw material
- (v) Finished Product
- (vi) Marketing
- (2) Administrative know how in relation to
- (i) Organization Planning and Structure
- (ii) Functionalization, etc.
- (iii) Fiscal management

- (3) Human Interaction Skills
- (i) Interpersonal
- (ii) Group Problem Solving and decision Making
- (a) Group building and maintainence
  - 1. Leader and member roles
  - 2. Creative and integrative problem solving, not win-lose orientation
- (b) Problem solving as cognitive process
- (c) Situational requirements taken into account.
- (d) Use of assisted problem solving and searching question.
- (C) The adequacy of the selection process. The level of aptitudes, qualifications, and intelligence among members of your organization.
- (D) The adequacy of the training resources
- (E) The cultural and personality characteristics of

  members of your organization with regard to such

  variables as expectations of being involved in

  decisions dealing with one's work and the skills for

  doing so.
- (F) The adequacy of capital and equipment

# II. <u>Intervening Variables</u>

- (A) Attitudinol, motivational, perceptual variables
- (1) The extent of member loyalty to your organization and identification with it and its objectives.
- (2) The extent to which members of your organization at all hierarcial levels feel that the organization's

- objectives are consistent with their own needs and goals and that the achieverment of the company's objectives will help them achieve their own.
- (3) The extent to which the goals of units and of individuals are felt to be of a character to facilitate your organization's achieverment of its objectives; the extent to which they actually facilitate the achievement of its objectives.
- (4) The level of motivation and level of goals among members of your organization (for entire organization, for departments, and for each member of each unit, including peers and superior) with regard to such activities as
- (a) Performance, including both quality and quantity of work done.
- (b) Elimination of waste and reduction of costs.
- (c) Improving the products.
- (d) Improving service to customers
- (e) Improving technological processes
- (f) Improving the organization, its procedures, the training and skill of personnel, etc.
- (5) The **exte**nt to which members of your organization feel that the atmosphere of the organization is supportive and helps each individual achieve and maintain his sense of personal worth and importance.

- (6) The level of expectations of members of your organization with regard to such variables as
- (a) Income and trends in income
- (b) Stability of employment.
- (c) Promotion, training, and development opportunities
- (d) Fringe benefits.
- (e) Working Conditions
- (f) Interesting and Psychologically rewarding work.
- (g) Being involved in decisions related to their work and conditions of employment.
- (h) All other aspects of their jobs and work.
- (7) The level of satisfaction of members of your organization with regard to the variables listed under 6 above and such other variables as
- (a) The company itself, their department, and their work group.
- (b) The treatment they receive including e.g. recognition for good work.
- (c) All aspects of the management system of the company.
- (8) The cognitive understanding of members of your organization e.g., the extent to which each member of the organization is correctly informed about the content of his job, his job role, etc.
- (9) The character of the interaction-influence system and the level of cooperative working relationships.
- (a) The extent to which cooperative attitudes exist
- (i) The degree of confidence and trust among peess,

- among the different hierrarical levelS, and among the different organizational units.
- (ii) The extent to which attitudes toward superiors, peers, subordinates, and other relevant persons in organization are favourable
- (a) The level of peer group loyalty (attitudes of subordinates members of work group toward each other).
- (b) The level of total group loyalty (attitudes of all members of work group toward each other i.e. peer group loyalty, attitude toward superior, and attitude and behaviour of superior toward subordinates)
- (iii) The level of cooperative attitudes within each unit of your organization, among units, among various parts of the organization, such as, line and staff, divisions, departments, and headguarters.
- (b) The perceived and actual efficiency and adequacy of the communication process upward, downward, laterally.
- (i) The extent to which each member (or unit) feels he has the information he needs to do his job well.
- (ii) The extent to which each superior (your) and each of his subordinates have the R same understanding as to responsibilities, authority, roles, goals, and deadlines
- (iii) The extent to which each (your) superior is correctly informed as to the expectations, reactions, and perceptions of each of his subordinates and conversely

- (iv) The extent to which each (your) superior is correctly informed of the obstacles, problems, and failures each of his subordinates is encountering in his work; the assistance each subordinate finds helpful or of little value; and the assistance each wishes he could get.
- (v) The extent to which members of your organization at all hierarchial levels are motivated to communicate fully and accurately all the important information to all persons for whom the information is relevant and valuable and to omit the irrelevant in order to ovoid overloading the communication system.
- (vi) The extent to which each member feels that the organization, his superior, peers, and subordinates earnestly endeavor.
- (a) To communicate to him information of value to him
- (b) To listen to him, to seek his ideas, views, experiences.
- (vii) Extent to which there is motivation to accept downward communication, not distort it, and to react favourably to it.

## (viii) Upward communication

- (a) Extent to which upward communication via line organization is preceived as adequate.
- (b) Extent to which upward communication via line organization is preceived as accurate.
- (c) Extent to which subordinates feel responsible for initiating and maintaining accurate members are motivated

to call to the attention of the relevant persons information requiring action and to persist in doing so until the necessary action is taken.

- (d) Extent to which there are forces leading to accurate or distorted information and nature of these forces.
- (e) Extent to which there is a felt need for supplementary upward communication systems (e.g. suggestion systems, etc.). (The greater is this need, the poorer is the communication system).
- (ix) Extent to which lateral communication is preceived as adequate and accurate.
- (x) Psychological closeness of superiors to subordinates
- (a) How close does each feel he is to the other in understanding and mutual trust? How close does the seek to be?
- (b) How well does each (your) superior know and understand the problems faced by his subordinates and conversely?
- (c) To what extent are erfeptions by superiors and subordinates of attitudes, roles, and problems of others accurate?
- (x1) The extent to which each person feels that the formal organization provides him with all the channels for communication and interaction which he feels he needs.
- (C) The perceptual and motivational consequences of the decision making process
- (i) How do members of the organization feel about the decision making process ?
- (a) To what extent do they feel that decisions are made made at the right level and by the right people?

- (b) To what extent do members feel that their ideas, information, knowledge of processes, and experience are being used?
- (c) To what extent do members feel that important problems are recogoized and dealt with promptly and well?
- (d) To what extent do they feel that the decision making process makes full use of all of the relevant information available within or to the organization
- (e) To what extent do they feel that the decisions adequately take into account the important situational requiremeents?
- (f) To what extent do the members feel that the decisionmaking process of the organization is such that they
  can exert sufficient influence on the decisions to
  enable them to feel that their working situation is
  satisfactorily predictable, dependable, and controllable
  with regard to objectives, goals, evaluation and
  reward processes, and organizational performance and
  success?
- (ii) To what extent are the decision makers fully and correctly aware of problems, particularly those problems at lower levels in the organization?
- (iii) To what extent does the decision making process encourage efficient and accurate communication?
  - a. Upward
  - b. Downward
  - c. Laterally

4.10

- (iv) To what extent are the decisions of your organization made at the best level and in the best way with regard to the motivational consequences?
- (a) Does the decision-making process help to create the necessary motivations in those persons who have to carry out the decisions?
- (b) What forces are created to accept, resist, or reject goals?
- (c) Is every hierarchial level motivated to strive for high performance?
- (d) What is the magnitude of the motivational forces created in persons to carryout the decision or defeat its intent and block its execution?
- (e) The perceptoal and motivational consequences of the influence, control, and coordination processes in each unit and thoughout the organization
- (i) The amount of influence that different members of your organization and the different hierarchial levels feel they exercise, and the amount of influence others see them actually exercising, e.g., the extent to which superiors feel they can influence the goals, methods, and activities of their units and departments and the extent to which their subordinates see them as being able to do so; and, conversely, the extent to which subordinates feel they can influence such goals, etc., and the extent to which their superiors see them as being able to do so

LT 3 ~

- (a) As seen by superiors
- (b) As seen by peers
- (c) As seen by subordninates.
- (ii) The extent to which members of your organization at all hierarchial levels are motivated to try to discover the intent of a communication and to react to its true intent, instead of reacting to the letter of the communication and ignoring or actively defeating its intent.
- (iii) The extent to which members of your organization at all hierarchial levels are motivated to carry out to the best of their ability the objectives of the organization and the goals of their department, instead of blocking action and sabotaging these objectives and goals in every way they dore to.
- (iv) The extent to which members of your organization feel responsible for seeing that the organization as a whole, each work group, and each person achieve the established objectives and goals; the extent to which they are motivated to implement this felt responsibility.
- (10) The extent to which economic needs are effectively used to create motivational forces focused on helping your organization achieve its objectives
- (i) The extent to which the compensation system rewards and motivates behaviour oriented toward achieving organizational objectives and does not reward or motivate behaviour which is not so oriented.

- (ii) The excent to which the compensation system is seen as equitable; the extent to which each person feels his pay is too low, about right, or on the high side
  - (a) In comparison with others in the organization.
  - (b) In comparison with jobs elsewhere
  - (c) In an absolute sense
- (iii) The extent to which the members of the organization feel that the decision making procedure used by the organization in deciding upon compensation is fair and equitable.
- (11) The extent to which the motivational forces arising from the noneconomic motives are consistent with and reinforce those created by the economic needs; the extent to which all the different motivational forces are in harmony and are focused on cooperative efforts seeking to achieve the organization's objectives.
- (12) The extent to which members of your organization feel under "Reasonable pressure" to produce (and react unfavoruably to it); the extent to which members feel that pressure to produce is self-imposed instead of imposed by others.
- (13) The extent to which members of the organization (or of its units) seek to press for high productivity or to restrict production-both individually and by work groups; the extent to which members in your organization have favourable attitudes toward high producers and encourage, rather than discourage, them to produce at a high level.

- (14) The extent to which there are good versus poor labour relati ons and the extent to which attitudes exist which provide an atmosphere in which differences can be resolved in a constructive problem solving manner versus attitudes inducing bilter, irreconcilable conflict.
- (15) Level of mental health
- (i) Level of hostile, resentful attitudes
- (ii) The amount of stress and anxiety felt by members of the organization and the sources of stress; extent to which members feel they have the organizational means to reduce stress and deal constructively with the couses of stress
- (iii) Levels of emotional maturity, self estem , and self-confidence.
- (16) The effect of any anxiety upon health, well being, and the capacity to function effectively as revealed by high rates of sickness, absence, accidents, and similar symptoms
- (i) Evidence from Psychological tests and reports
- (ii) Evidence from Physiological tests and health examinations and reports.
- (17) Level of shareholder confidence and loyalty
- (18) Level of customer confidence and loyalty
- (19) Level of supplier confidence and loyalty.

- (B) <u>Intervening</u> Behavioral Variables
- (1) The extent to which there is wide participation in decision making versus highly centralized decision making
- (2) The extent to which members of your organization apply principles of supportive relationships to subordinates, peers, superiors, customers, etc.
- (3) The extent to which members of your organization coach, counsel, and train their peers, share new knowledge on how best to do job, and in other ways help to perform leadership roles
- (4) The extent to which members of your organization constantly seek and actually carry out ways to improve methods, technology, and products, and to eliminate waste and unnecessary work; extent to which they are well trained to do so.
- (5) The extent to which members in your organization have high performance standards and goals and through group norms encourage peers and others to share equally high standards ("High standards" refer to the entire list under Causal I A2)
- (6) The extent to which the review and control functions are concentrated at the top of your organization or performed as coordinated and reciprocally responsible behaviour by work groups throughout the organization and at all levels.

- (7) The extent to which a highly effective interaction-influence system is used and is being strengthened
- structure: what it is in actual fact as compared with what it is supposed to be, e.g., who reports to whom about what, the number of superiors and subordinates each person has, the extent to which the structure consists of overlapping groups, the amount of multiple overlapping, the adequacy of linking pins and the strength of linkage provided by each linking pin, and the extent to which the informal organization and the formal organization are the same.
- (ii) Extent to which this system employs group rather than man-to-man interaction.
- (iii) Extent to which this system sets and modifies its own objectives, goals, and procedures
- (a) Extent to which these objectives are a creative integration of needs, desires, and aspirations of the members of the organization and of all persons functionally related to the organization or served by it, such as

Shareholders

Customers

Suppliers

(b) Extent to which the goals of each department, unit, and subunit of the organization reflect a constructive

integration of the needs and desires of its members, the gools of other departments, and the objectives of the entire organization; the extent to which the members of the department or unit are involved in the decision-making processes used in establishing the department's goals.

- (c) Extent to which departments and other parts of the organization, evaluate progress toward their objectives and goals at appropriate intervals and make appropriate modifications in the objectives of the entire organization and goals of departments and units; extent to which this is done also with regard to the strategies, methods, and technologies to be used for the achievement of these objectives and goals.
- (d) Extent to which this interaction influence system evaluates, builds, and maintains its multiple overlapping group structure and cooperative working relationships and thereby maintains a highly effective interaction influence system.
- (e) Extent to which the organization through the group decision pocedures of its interaction influence system establishes, maintains, evaluates, and operates in an equitable manner (as seen by the members of the organization and by persons served by the organization) its compensation, pricing, and dividend processes and policies; extent to which these processes and policies are reviewed and evaluated at appropriate intervals

- and adjusted to maintain their equitable character
- (f) The character of the decision-making process of the interaction-influence system
- (i) which individuals and which groups at which levels make what decision?
- (ii) What facts are used in making these decisions, and how accurate and adequate are these facts?
- (iii) To what extent is the technical and professional knowledge existing in the organization or available to it used in decision making?
- (iv) To what extent do members of the organization skillfully use group problem solving and decision making processes both cognitively to solve problems and for group building and group maintcumence?
- (1) Extent to which they seek to use integrative, constructive problem solving rather than a win-loose approach
- (2) Extent to which differences and conflicts are accepted as necessary and desirable and are worked through to constructive innovative solutions.
- (3) Extent to which the abilities, knowledge, and expreence of each individual member are used fully; the extent to which each member gives advice, counsel, and support to other members while recognizing invidual accountability and specialization
- (4) The extent to which each member accepts responsibility for keeping

- discussions relevant and for the integrity of the team operation.
- (5) The extent to which individual differences and individuality are desired, used, and respected.
- (6) The extent to which diversity in outlook and differences of point of view are welcomed and used in an innovative and constructive manner in decision making.
- (7) Extent to which all members in your organization perform communication processes well
- (i) Extent to which they communicate to others (peers, superior, subordinates), in a candid, frank, and sincere manner because of an atmosphere of confidence, trust, and support rather than being cautious and guarded in their communication.
- (ii) Extent to which they try to (and do) communicate rapidly and efficiently to others all relevant information by emphasizing the important information and filtzing out the trivia; extent to which knowledge and action on essential matters are assured by repeating important information and even relaying it when necessary through alternate channels.
- (8) Level of cooperative behaviour among the members of your organization oriented toward helping the organization achieve its objectives.
- (9) Extent to which such variables as the following are at a level optimum for the organization and its members

- (i) Turnover rates
- (ii) Absence rates
- (iii) Manhower development rates
- (iv) Growth rate of the firm
- (10) Extent to which accident and sickness rates are at a minimum.
- III. End Result Variables
  (This list is illustrative and is incomplete)
- (A) Performance Variables
  - (1) Level of Productivity
  - (2) Level of quality of Product and service
  - (3) Level of Scrap loss and waste
  - (4) Level of share of market
- (B) <u>Financial Variables</u>
  - (1) Level of costs
  - (2) Level of sales and income
  - (3) Level of profit
  - (4) Level of Compensation
  - (5) Level of financial reserves
  - (6) Current value of investment in Plant, equipment, inventories, R and D, markets, etc.
  - (7) Current value of investment in human organization.
  - (8) Current value of investmend in customer poyalty.
  - SOURCE "THE HUMAN ORGANIZATION " by Rensis Likert pp.212-229

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## APPENDIX II

# RELATIONSHIPS AMONG CAUSAL, INTERVENING, AND END-RESULT VARIABLES

The various dimensions of a firm's human organization and its operations can be placed in a conceptual framework which contributes to their interpretations and helps guide directions on what to measure. This frame aids in the analysis of the data:, it contributes appreciably to the rapid and accurate di agnosis of problems in system 4 organizations, and its indispensable to firms seeking to shift system 4 since it focuses their efforts on the key places to introduce change. The variables are grouped into 3 broad categories, namely, causal, intervening, and end result. Grouping variables into thes ecategories aids greatly in the correct interpretation of the data and their use for diagnostic and other organization purposes.

The interrelationships among the three categories of variables in system 2 and system 4 organizations are shown schematically in figure 7. This figure, while grossly oversimplifying the relationships, helps to make clear the pattern among the variables. Ir system 4 organizations, as the figure shows, the principle of supportive relationship is applied, and group methods of decision making are used in a multiple overlapping group structure. These two key variables lead (as arrow (1) portrays) to intervening variables such as favourable attitudes toward superior, high confidence and trust, high reciprocal influence, excellent

(continued on next Page.)

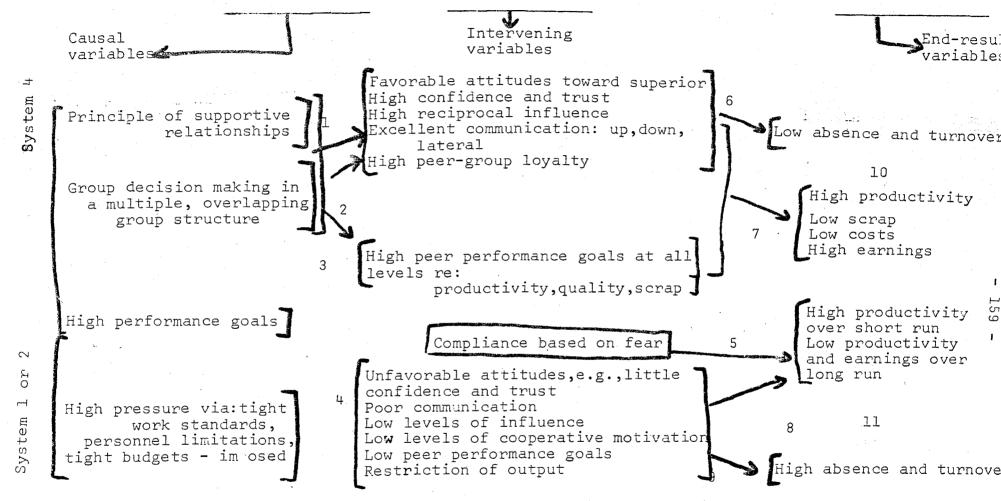


Fig. 8-1 Simplified diagram of relationships among variables for System 1 or 2 and System 4 Operation

Reference: - "The Human Organization: Its Management and Value" by Rensis Likert p.p. 137

Published by McGraw HillBook Company (1967)

communication, and high peer -group loyalty. These and similiar intervening variables, in turn, lead to low absence and turnover (arrow (6)).

To achieve high productivity, low costs, and high earnings, however, superiors must also have high performance goals. When a manager's behaviour reflects the principle of supportive relationships and high performance goals, and when he uses the group as the decision-making unit, then the members of the organization will display the intervening variables shown, namely, favourable attitudes toward superior, etc., and high neer performance goals for them selves and the organization. This is depicted by arrous (2) and (3). In turn, these intervening variables will result in low turnover and costs and high productivity and earnings, as is respresented by arrows (6) and (7).

Absence and turnover probably should be thought of as intervening behavioral variables which influence productivity, costs, and earnings (arrow (10)). For this reason, they are slightly to the left in figure 7 of the productivity, costs, and other end-result items.

In systems 1 and 2 organizations, as figure 7 indicates, high performance goals by superiors, coupled with high-pressure supervision using high budgets and controls, yield high productivity initially be cause of campliance based on fear (arrow (5)). But these variables also yield (arrow (4)) unfavourable altitudes, distrust, poor communication, low peer performance goals, and restriction of output. These,

in turn, esult over the long run in high absence and tu rnover and low productivity (arrow (8) and (9)). High absence and turnover contribute to high costs and low earnings (arrow (11)).

The variables shown in figure 7 are only a few of the many dimensions which can and should be measured. A much much more extensive list is presented in Appndip I. The purpose of this list is to provide a general conceptual framework for all these major dimensions of a firm's human organization and its output. As will be observed, several of the items in Appendix I are concerned primarily with system 4 organizations.

It is valuable to recognize in any diagnosis or analysis of an enterprise which variables are cousal, which intervening, and which end-result. Thus, if one wishes to diagnose a problem involving production or earnings (end-result variables) in terms of causal and intervening variables, it is obviously necessary to measure all g kinds. If the relevant causal variables are not measured, as all too often happens, it is, ofcourse, impossible to analyze the problem in terms of such variables. One is then at a loss to know what are the key causal variables which must be changed to improve the situation.

## CONCLUSION

## CAUSAL VARIABLES: THE KEY TO ORGANIZATIONAL IMPROVEMENT

Figure 7 and Appendix I are useful guides in all attempts to help an organization shift toward system 4. When an organization is seeking to make such a shift, the efforts to change should be focused initially on the causal variables. Changes brought about in the causal variables will lead in turn to changes in the intervening and end-result variables. Attempts to bring the desired shift in the management system by concentrating on the intervening on the intervening variables directly will result usually in disappointment and failure.

Efforts to change an organization toward system 4 also need to deal with all those organizational procedures which bind an organization to its present management system Traingng in group interaction skills and similiar efforts to more an organization toward system 4 are likely to yield disappointing results if steps are not taken to shift all operating procedures toward a system 4 pattern. A company using system 2 management is firmly bound to that system by all of its operating proceduses, such as its pattern of setting objectives and budgets, the use of measurement for punitive control, the customary performance appraisal and re view process, and its compensation plan with regard to both the way the plan is established and the way it is administered. These and all the other system 2 operating procedures need to be changed to a system 4 model to

enable the entire organization to mare to system 4.

SOURCE: "THE HUMAN ORGANIZATION " by p.p. 136-141

Rensis Likert

Published by: McGraw Hill Book Company 1967

#### APPENDIX III

#### STATISTICAL TESTS

## TEST FOR SIGNIFICANCE OF A PROPORTION

The significance test (Z-tes) for the obtained proportion is computed by use of the following formula:

$$Z = \sqrt{\frac{P - P}{\frac{P(1 - P)}{N}}}$$

A significant Z would mean that the value is significantly different from the P value.

(1)

(a) 
$$Z = \frac{0-0}{0} = 0$$

(b) 
$$Z = \frac{0-.05}{\frac{.05(1-.05)}{17}} = \frac{-.05}{\frac{(.05)(.95)}{17}} = \frac{-.05}{.0528592} = -.9459091$$

(c) 
$$Z = \frac{.77 - .71}{\frac{.71(1 - .71)}{17}} = \frac{.06}{.1119348} = .5360263$$

(d) 
$$Z = \frac{.23 - .24}{(.24 - (1 - 24))} = \frac{-.01}{-.0305882} = .3269234$$

(e) 
$$Z = \frac{0-0}{0} = 0$$

$$Z = \frac{P(1-P)}{\frac{P(1-P)}{N}}$$

(2)

(a) 
$$\frac{0-0}{0} = 0$$

(b) 
$$\frac{0-2.12}{\sqrt{\frac{.12(1-.12)}{17}}} = \frac{-.12}{.0062117} = -19.318383$$

(c) 
$$\frac{.47 - .47}{17} = 0$$

(d) 
$$\frac{.47 - .35}{\frac{.35(1 - .35)}{17}} = \frac{.12}{.0133823} = 8.9670684$$

(e) 
$$\frac{.06-.06}{\frac{.06(1-.06)}{17}} = 0$$

(3)

(a) 
$$\frac{0-.06}{0.06(1-.06)} = \frac{-.06}{.0575986} = -1.0416919$$

(b) 
$$\frac{.12 - .12}{.17} = 0$$

(c) 
$$\frac{.47 - .41}{\frac{.41(1 - .41)}{17}} = \frac{.06}{.0142294} = 4.2166219$$

(d) 
$$\frac{.41-.-35}{.0133823} = \frac{.06}{.0133823} = 4.4835342$$

(e) 
$$\frac{0-.06}{\sqrt{.06(1-.06)}} = \frac{-.06}{.0575986} = -1.0416919$$

(4)

(a) 
$$\frac{0-.06}{\frac{.06(1-.06)}{17}} = \frac{-.06}{.0575986} = -1.0416919$$

(b) 
$$\frac{.18 - .24}{\sqrt{.24(1 - .24)}} = -.06$$

$$\frac{.53-.59}{\overbrace{\begin{array}{c} .59(1-.59) \\ 17 \end{array}}} = \frac{-.06}{.119287} = -.5029885$$

(d) 
$$\frac{.24-.11}{\frac{.11(1-.11)}{17}} = \frac{.13}{.0056941} = 22.830649$$

(e) 
$$\frac{.05-0}{\sqrt{0(1-0)}} = .05$$

(5)

(a) 
$$\frac{0-.06}{\sqrt{\frac{.06(1-.06)}{17}}} = \frac{-.06}{.0575986} = -1.0416919$$

(b) 0

(c) 
$$\frac{.41-.41}{\sqrt{\frac{.41(1-.06)}{17}}} = 0$$

$$\begin{array}{c} \underline{.53-.53} = 0 \\ \hline \\ \underline{.53(1-.53)} \\ \hline 17 \end{array}$$

(e) 
$$\frac{.06-0}{\sqrt{\frac{0(1-0)}{17}}} = .06$$