### **Application of Systemic Management Conception to Organization's Management Decisions Structuring**

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The developing conception of systemic management conditions the new understanding of organization management. Systemic viewpoint to management and economic processes is one of the new management theories, which in most cases are striving for profound viewpoint to processes of management and their administration's principles. System viewpoint is important factor in some business areas, such as tourism, sport management, etc, where business processes are based on various organizations' constant collaboration. Systemic viewpoint firstly characterizes the structure of individual organization, which is the base for further system theory development in management area. The summarized analysis of various views to systemic organization management, which is used to determine the basic elements of systemic organization management, is presented in this article. Many authors, who have been analyzing the conception and principles of behavior of system, treat system as the unit of elements, related interdependent by the same character connection, which functions as an individual object of environment. Management of organization in a context of systems 'theory can be treated as a complex process of information in which process employees of management's structure pursue functions of management by regulating all processes that happen in the organization. The analysis of Boulding (2004); Gregory, Stuart (1989); Černiak (1975); Zakarevičius (2002); Lydeka (2001) and other authors' viewpoint in systemic management analysis allows stating that system can be described according to three dimensions: 1) system's inside structure's features; 2) specific systemic features' attribute and 3) system's behavior features. But this viewpoint does not characterize the social system aspect of organization. Social structure can be defined as basic element of organization. Social structure in general involves members (participants) of organization which are an important part of complex organization as a social system. All parts of organization function facing environment, elements that do not belong to any particular system which in some cases complement system or become limiters of system's functioning, all the time. Therefore, structure of organization as a system can be expressed by evaluating reciprocity of inside elements of an organization and organization's as a system connection with elements of outside environment. Summarizing the analysis of systemic management, it is true to say that it is purposeful to relate management of an organization as a system with management of inside environment's elements (social structure, technology, strategy and human resources) of organization, joining these elements into solid environment, which proximately contacts with outside environment of organization, using incoming (resources necessary for organization) and outgoing (result of organization's activity) connections.

Keywords: systemic management, systems theory, organization management.

#### Introduction

Systemic viewpoint in management is classed to new management theories, which reflect modern management's conception's change. Boulding (2004) gave a lot of attention to systemic viewpoint in management, he properly analyzed the basic principles of systemic theory; Gregory and Stuart (1989), showed great consideration to systems' analysis in economic processes' environment; Barnard (1938), formulated the idea of organization, as a social system; Černiak (1975), researched peculiarity of systemic analysis realization. In Lithuania, the theory of systems and systemic viewpoint to management pretty properly analyses Zakarevičius (2002), who gave comprehensive genesis of management study; Lydeka (2001) elaborated conception of economic; Vengrys (1973) gave great attention to the research of the economic system, too.

**Subject and relevance.** The developing conception of systemic management conditions a new understanding of organization management. Management starts being treated not as single individuals, working in the same environment, but as a solid system, which functions because of closely related separate system elements interests, control.

Systemic viewpoint to the management of a particular organization can be considered as an advantage in the aspect that it lets warrant maximum synergy of members of organization and other elements (technical means, interests and so on), oriented to general purposes of organization as a social system.

In this article, the influence of theory of systems to the organization's management is being analyzed in order to summarize viewpoint of various scientists to systemic management of organization and to distinguish the main elements of systemic management of organization.

**The object of research** – decision's structure of systematic management of organization.

**The purpose of research** – to analyze the particularity of systemic viewpoint to management and to summarize it's interaction with organization's behavior. The methods of research is systemic, logic and comparable analysis of nonfiction.

The article analyses Boulding (2004), Gregory and Stuart (1989), Černiak (1975), Zakarevičius (2002), Lydeka (2001) and other authors' viewpoint in systemic management analysis.

## The conception of systemic administration in processes of management environment

The idea of systemic management was raised by exponents of classic systemic theory. The first, who started analyzing system as a particular part of elements' unit and formulated the idea of general systems theory, was Italian biologist L.Bertalanfi.

Systemic viewpoint to management and economic processes has classed the new management theories, which in most cases are striving for profound viewpoint to processes of management and their administration's principles. Fundamental pivot of systemic viewpoint is the conception of system.

Many authors, who have been analyzing the conception and principles of behavior of system (Boulding, 2004; Bondarenko, 1996; Bertalanfi, 1973; Wiener, 1963; Gregory, Stuart, 1989), treat system as unit of elements, related interdependent by the same character connection, which functions as an individual object of environment. Lydeka (2001) defines system as ordered system of interacting elements, which consistently makes integrity with such typical features that other separate elements do not have. This definition reflects meaning of integrity in systemic viewpoint. Integrity might be treated as unit's degree of system's organization, which defines appropriate systemic features, characteristics of elements and their interaction.

System can also be defined as appropriate unit, unity of interdependent elements (Simanauskas, 1997). Vengrys (1973) emphasizes system's contraposition to conception of chaos, when internecine independence of separate elements'exists.

Defining measurements of systems'theory, Zakarevičius (2002), treats system as an object, which consists of at least two compound elements, which are interdependent with the same character connections. Author emphasizes that system usually consists of rather more than two elements. This symbolizes system's, as an individual structure's, complexity. However next to this definition it is also necessary to emphasize that elements that are in the same expanse can not necessarily be named as a system if there are not connections of the same character. Consequently, it is important to value necessity of elements'internecine connections, first of all detailing character and features of these connections

Boulding (2004), who has properly analyzed systems' theory, distinguishes various aspects of a system without concretizing system's constituent characteristics, but emphasizing that system in one or another form exists in any, without reference to character or aspect of scientific inquiry. According to this proposition, Boulding (2004) distinguishes several viewpoints to system's analysis, emphasizing static, dynamic, thermostatic (static in particular conditions), open, genetic-social, organic, humane and other systems'existence and their analyzing demand through prism of system's theory.

In nonfiction (Lydeka, 2001; Gregory, Stuart, 1989; Wiener, 1961) system is usually being described according to:

- System's inside structure's features: abundance; element; feature; connection; relation; interaction; integrity; organization; hierarchy; component; material; structure and others. These features reflect basics of system's structure (organization's);
- Specific systemic features' attribute: interaction; reversible, direct, positive and negative connection; management; state of elements; selfregulation; competition; integrity; dynamism; static; openness; insularity; integration; differentiation; centralization; stability; balance and others. These features reflect posed and possible potential systemic qualities;
- System's behavior features: purpose; environment; system's state; behavior; activity; alteration; functioning; determinism (conventionality); adaptation; development; evolution; training; genesis and others. These features reflect factual system's qualities which appear in interaction with real environment.

In structural opinion system can be represented as individualized part of a unit, which is related to environment in particular connections (figure 1). Absolutely isolated systems, which do not have connections with environment, do not exist in real world. Therefore system's detachment from a unit can be treated as conditional decision, reasoned by particular assumptions. If they had changed, system's structure and relation with environment would have changed.



Figure 1. System's structure and connection with environment (Boguslauskas, 1999)

The purpose of systems theory – systemic analysis and projection. It's gist – after analyzing system, new information is generated, which shows how qualitatively a system has to change so it's existence's efficiency would grow. Systemic analysis and projection's logic is based on this consistency to:

- 1. Ascertain to which class or group system belongs.
- 2. Estimate what functions it performs, what are it's purposes.
- 3. Estimate system's structure.
- 4. Analyse every element subsystem.
- 5. Ascertain system's connections with environment, estimate characteristics of environment.
- 6. Characterize processes happening in a system.
- 7. Analyze subsystems and processes of management.

While researching systems, an urge has arisen to marshal-classify them anywise. One of the well-known initial systems'classifications is given by K.Bouldig. This classification is special because it has not got a particular criterion of dividing systems. K.Boulding distinguished 8 classes of systems:

- *Static systems* made of elements which do not move and are closely connected.
- Simple dynamic systems systems in which elements move in simple, restricted trajectories.
- Simple cybernetic systems systems which react to changes, happening in system's outside or inside.
- Open, adjusting systems nature's rudiments.
- *Flora* various plants.
- *Fauna* new quality systems which have recognition's receptors and nervous system.
- *Human* a special perfect system. Human has intellect, which gives an opportunity to remember the past, evaluate present and forecast future. That shows the singularity of the system.
- Social organization system of groups of people who are related by common activity and interests.

In mathematical opinion system and environment are related by two types of relations:

- System's run more or less depends on outgoing variables received from environment, which can change particular parameters of system's behavior.
- System, functioning in particular purposes and in particular directions, generates outgoing variables, by which it contacts with environment and changes particular parameters of environment.

Without reference to system's functioning particularity, these basic features of all systems are distinguished (Černiak, 1975; Zakarevičius, 2002):

- *Integrity*. All elements in a system are joining together in one unit.
- *Divisibility*. Every system can conditionally be marshaled to separate elements.
- *Unique nature*. Every system somehow differs from others.
- Segregation. A system can segregate from outside

environment for some time.

- *Indetermination*. It is impossible to record system's features at the same moment.
- *Identification*. Every element of a system can be distinguished conditionally and estimate it's features.
- *Variety*. Every element or it's behavior in a system is expedient and unique.

To summarize conception of a system position of exponents of systems' theory, it is true to say that the system is a substantial element of systemic viewpoint. Analysis of it's conception requests to research system's own principle structure and it's constituent, by that identifying system's connection with environment. This aspect is extremely important analyzing organization as a system which is closely connected to various elements of environment surrounding it. Therefore analyzing conception of systemic organization's management first of all decision's structure of systematic management of organization must be elaborated.

# Decision's structure of systematic management of organization

Management of organization can be treated as a complex process of information in which process employees of management's structure pursue functions of management by regulating all processes that happen in the organization. System of management, which connects all processes happening in an organization to undivided unit – a system, vouches realization of processes of management in organizations as social systems.

The idea of organization as a social system was formulated by Barnard (1938). Barnard maintains that an organization is such sort of corporation's people who differ from other social groups in consciousness, predictability and singleness. Barnard and his exponents gave great attention to general actions of people, their corporation, and only after that purposefulness was emphasizes. A strong representative of human nexus, analyzing problems of incentives of actions, understands that activity of employees, quality of work and other results depend not only on motivation, but also on many others organization's factors which have strong interdependent connections. Therefore he starts treating organization as a human system in which one person, groups of people have strong interdependent connections and their actions are deliberately coordinated (Zakarevičius, 2003).

Barnard also gives the first conception of interconnection of social systems, bigger systems division into smaller. He refers to organizations as big systems because they compile bigger systems (corporations, association). All organizations integrate into huge, informal and never finally defined organization called society.

Organization can be defined as two and more people having the same aim and purposely collaborating. It is evident that organization is a group of people who are related by connections of collaboration, corporate interests and aims. In this regard every organization is a social system (Zakarevičius, 2002).

On the other hand, organization is an object in which

direct consolidation of Earth, physical capital and work force happens, in other words, primary economic process (in most cases industrial) happens, one or another (material, intellectual or other) product appears. It is necessary to emphasize that economic process happens not only in industrial or commercial organization, but also in organization with other character. Therefore from this viewpoint every organization is an economic system.

Cole (1999) maintains that system of management, as a complex management subject, can be defined by four basic dimensions which recount realization's context of system of management (figure 2). According to this conception of management's system functioning, the role of information can be emphasized though the prism of functionality of management's system. It is evident that information from this viewpoint can be treated as structural basis of any management's system, establishing implements of embodying aims of management's system. On the ground of control of information, system of management that is being analyzed lets treat system of management as combination of information's flow management and procedures of communication, that compiles prerequisite for integrated management of all processes that are happening in an organization. In this context it is necessary to emphasize that according to famous economic experts (Oliveira, Centeno, 2004; Fischer, Stokic, 2002), is not only transmissible knowledge, but also aids and appliances of work which can make right decisions. Such information term's treatment is related to nascence of two new disciplines - mathematical information and theories of cybernetics. In these two disciplines information is treated as knowledge, which sheer or partially repeals obscurity which remained as yet.

#### 1. Information's compilation/analysis

- Private / public information's compilation
- Consistent / contemporaneous information's processing

#### 2. Information's transfer

- Standardized / situational information's transfer
- Simplex / interactive information's transfer

#### 3. Communication of information's transfer

- Purposive / reticulate communication
- Dragged in time / communication on time

#### 4. Information's character in system of management

- Information oriented to the past / future
- Discreet / integrated information

Figure 2. Dimensions of system of management (Cole, 1999)

Abstracted dimensions of system of management on the ground of information's management enable to relate definitions of *information* and *management* with close conceptual contacts, but in work's author opinion, it is beside the purpose to limit analysis of system of management only with connections with information's management. Analyzing system's of management conception and it's role in business organization, it is expedient to research components of systemic management's purport, which validate necessity of systemic management, as implements of securing effective organization's / business'functioning.

Systemic theory, analyzing organizational structure of organization's system's management, identify it with structure's analysis, analyzing composition of elements and connections between them at the same time. Zakarevičius (2002) emphasizes that hereby description of organizational structure is a description of organizational management structure.

Organizational management structure properly shows a whole view of a company. Company's managers choose (project) this structure, it's different variants. Company's work strategy, usable work methods depend on organizational management structure (Zakarevičius, 2003).

Four basic variants of organizational management structure are (Žvinklys, Vabalas, 2001):

- simple or linear;
- functional;
- workshop (subdivision);
- matrix.

*Simple (linear) management structure*. The prime example of simple management structure is management of a personal (individual) company. Undoubtedly similar management structure is also possible in partnership. Economic work's decisions collectively can be made there by all members of partnership without hiring special (professional) staff of management. Linear structure has superior because (Misevičius, 2001):

- Every co-worker has only one supervisor who gives directions.
- Strict management system is being established.
- However, this system has some demerits:
- Every supervisor is to know, how to do and solve almost everything.
- The bigger is a company, the greater are solutions.
- The passage through institutions is very long in big companies.

In relation to these causes, linear structure is suitable only for small companies.

*Functional management structure* mostly is in companies which produce, sell a product or several products of one denomination which are interdependent or closely related by their markets of realization. Employees of such company are grouped according to the work they do and similar education. Employees, pursuing the same tasks, are organized into one separate company's subdivision – department, office and so on.

There are more organizational connections of *work-shop's management structure* and they are more complex. According to practice, the number of demerits of functional management structure is growing and they start to dwarf the advantages while the company is expanding. It particularly shows while nomenclature of production is expanding in a company, there appear more various consumers or activity is expanding in geographical viewpoint. Work of such a company is diversified – products are being produced unrelated in technological viewpoint or various facilities are purveyed (Žvinklys, Vabalas, 2001). In this case, it is necessary to form subdivisions, establish particular independent workshops or subdivisions which would do everything themselves – project, produce and sell their products.

Matrix's management structure is invoked in case high technology level is needed when tough competition is made to producible production, when requirements to production's standardization are high, when it is necessary to adjust to specific markets of different countries. Matrix's management structure is very complex because different ways of management interlace in it. Matrix's management structure is much more flexible than other organizational structures. It tries to alienate from power of traditional hierarchy and from unitary structure of team and reaches for balanced power and division of responsibility. The main elements, that distinguish matrix's structure from the others are: a manager that simultaneously reports to two directors; managers that share subordination; head manager that conducts this dual structure and solves emerged controversies (Navickas, 2003).

According to basic system's structure showed in illustration No.1, systemic management of organization can be defined analogically – as a system which consists of planning, organization, control, monitoring and other functions of integrated realization, that is in process due to incoming variables which are treated resources, necessary for organization to function - people, tangibles, equipment, financial resources. According to classic principles of economics theory, all resources such as land, labour and capital, that are needed business organization, can in general be defined as factor of production. Due to these incoming variables, functioning system of business organization's processes generates outgoing variables commodities and facilities, increase of a capital (benefit), employees' satisfaction, surplus to society and others. Incoming and outgoing variables connect business organization (system) to environment. Graphically discussed structure of business organization as a system is presented in figure 3.

It is also possible to resolve environment, as unit of elements surrounding management's system, into general elements. Classifying elements of environment according to incoming variables, three constituent can be distinguished: labour's, capital's and land's market, correlation of which determines size of usable incoming variables. In another aspect, environment of business organization as system can also be treated as complex of economic, political-juridical, social-cultural, ecological and technological environment, which determines decisions of business organization procedures'realization.



Figure 3. Structure of business organization as a system and its interaction with environment (according to Cole, 1999; Bennett, 1997; Boguslauskas, 1999)

Organizations by its origin are a big, complex, dynamic, open, expedient, manageable system. These dimensions of organization's management can be defined as:

- *Big* there are many and various complex elements in an organization. It is very difficult to evalue all of them.
- *Complex* characteristics of organization's structure and proceeding processes can be measured only by complex methods. Some of them can be measured only approximately.
- Dynamic there are many and various by their purport and other parameters processes in an organization.
- Open organization, related to outside environ-

ment by various connections, receives and gives to environment materials, information and so on.

- *Expedient* organization functions estimating its aims and implementing them.
- Manageable there are informational processes in an organization and it serves as a basis for its activity regulation.

Principle model of organization as a system is presented in Figure 4. Basic element of organization in this model, given by Guščinskienė (2002), is social structure. Social structure can be treated in two ways: as normative, unbodying environment, or as factual order, inclusive rules, prohibitions, permits and similar elements which are applied to single individuals, which are necessary in regulating social life. In given a model, social structure in general involves members (participants) of organization which are an important part of complex organization as a social system. Members of organization is a unit of individuals, everyone of them has to have necessary features and skills which let individual to take a particular place a social structure of organization and perform an appropriate social role. All members of organization construct organization's staff. Members of organization, having different capabilities and potential, have to fill all treads of social structure, all social positions in an organization.

Social structure, as a basic element of organization, cannot function successfully without other important con-

stituents of organization. First of all these are aims of organization, which define activity's marks of all social system, partially characterize activity's purport of a particular social system. According to it's origin, aims of organization can be related to:

- Tasks, intended to vouch functioning of a whole system or it's individuals.
- Marks which define basis of system's functioning and direction of evolution.
- Systems that allow single organization (social system) to integrate into systems of outside environment, which compile structural piece society.



Figure 4. Principle structure of organization as a system (Guščinskienė, 2002)

All parts of organization function facing environment, elements that do not belong to any particular system which in some cases complement system or become limiters of system's functioning, all the time. Environment, surround organizations and systems, can be analyzed in two aspects, distinguishing general and specific environment. General environment is defined as environment which parameters are relevant to all systems or organizations. Natural environment defines general environment. Specific environment is such environment parameters of which are relevant only to the system which is being analyzed. Such parameters of a system in a business organization can be a level of producible product or demand of a facility, specific infrastructure (traffic system, pipeline system and so on) or channels of stock receiving.

The authors of the article consider two structures of organization to be an interdependent system because they emphasize different aspects of system's functioning: structure of organization as a system, given by Guščinskienė (2002), defines inside structure of organization joining all processes that are happening inside organization and ignoring significance of outside environment; structure of organization as a system, given by the authors of the article (according to Cole, 1999; Bennett, 1997; Boguslauskas, 1999) emphasizes organization's relations with elements of environment, amplifying integration of organization as a system into a wider-raging system – environment of organization. According to the description of these two viewpoints, it is true to say that structure of organization as a system can be expressed by evaluating reciprocity of inside elements of an organization and organization's as a system connection with elements of outside environment. The scheme of this structure is presented in figure 5.

In authors' opinion, treating organization as a system, it is expedient to regard to a structure of organization as a system, given by Guščinskienė (2002), however it should be modified in justice to:

- Organization's as a system's component "Aims" loosely specifies marks of organization activity. According to provisions of organization's strategy's forming specialists (Drummond, 2003; Vasiliauskas, 2002; Hirschey, 1998; Andriuščneka, 2003), the concept "strategy" should be used. It gives wider-raging meaning to this part of a system, inclusive not only the aims of organization, but also a vision, a mission and alternatives of strategy.
- Participants of an organization should be named as human resources of an organization, their activity being limited by social structure and technologies. Exactly human resources determine realization of

organization's strategy, using available social structure of organization technologies.

As it was mentioned above, organization is inseparable from outside environment, therefore it is necessary to evaluate organization's connections with outside while forming structure of organization as a system. For this reason the elements of environment and organization's interaction with outside environment must be defined, which vouch incoming and outgoing variables. These elements are discussed in illustration No.3 analyzing structure and interaction with environment of business organization as a system.



Figure 5. Inside and outside structure of organization as a system (made by authors)

Summarizing the analysis of systemic management, it is true to say that system of management, as one of organization's subsystems, can be treaded as organization's, conceptualized as economic-social system, basis of rational and effective functioning. Such treatment of management's system enable to emphasize general advantages of systemic viewpoint to management – security and maintenance of internecine interest's solidity of system's elements and secure of whole system's purposeful evolution.

#### Conclusion

- 1. Evolution of systemic viewpoint to management, which started developing as one of trends of new school of management, determined alteration of concept of organization's management, as a result of which appeared opportunities of relating management of organizations with economical-social system's management.
- 2. One of the main features of organization as a social system is solidity, extent of which can be treated as a degree of internecine interests' compatibility of separate elements (members of organization) of social system. In respect that existence of separate elements in general environment is not enough for definition of a system, it is true

to say that solidity in a social system is determined by functioning of separate system's elements' correlation. After evaluating solidity's feature which is necessary for a social system to function, it is true to say that systemic viewpoint to management is based on search of internecine interests' compatibility of elements of organization as a social system and relating these interests with general interests of a whole organization.

- 3. Systemic theory, analyzing organizational structure of organization's management system, identifies it with structure's analysis, analyzing structure of elements and relations between them at once. Hereby systemic theory involves complex identification of organization's elements and secures rational functioning not of separate elements but of a system as unit. This feature of systemic management lets us maintain separate element looses it's individuality in a system and is treated as one of many replaceable parts of a system.
- 4. It is purposeful to relate management of an organization as a system with management of inside environment's elements (social structure, technology, strategy and human resources) of organization, joining these elements into solid environment, which proximately contacts with outside environment of organization, using incoming (re-

sources necessary for organization) and outgoing (result of organization's activity) connections.

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### Sisteminio valdymo koncepcijos taikymas organizacijos valdymo sprendimų struktūrizavimui

#### Santrauka

Besiformuojanti sisteminio požiūrio koncepcija sąlygoja naują supratimą apie organizacijos valdymą. Sisteminis požiūris į konkrečios organizacijos valdymą gali būti laikomas privalumu tuo atžvilgiu, kad leidžia užtikrinti maksimalią organizacijos narių ir kitų elementų (techninių priemonių, interesų ir pan.) sinergiją, orientuotą į bendrus organizacijos kaip socialinės sistemos tikslus. Sisteminis požiūris vadyboje priskiriamas prie naujųjų vadybinių teorijų, kurios atspindi šiuolaikinį vadybos sampratos kitimą. Sisteminiam požiūriui į valdymą nemažai dėmesio skyrė Boulding (2004), išsamiai nagrinėjęs sistemų teorijos bendruosius principus; Gregory ir Stuart (1989), daugiausia dėmesio skyrę sistemų analizei ekonominių procesų plotmėje; Barnard (1938), suformulavęs organizacijos kaip socialinės sistemos idėją, Černiak (1975), tyręs sisteminės analizės realizavimo ypatumus. Lietuvoje sistemų teoriją ir sisteminį požiūrį į valdymą gana išsamiai nagrinėja Zakarevičius (2002), pateikęs išsamią vadybos mokslo genezę; Lydeka (2001), detalizavęs ekonomikos sistemos sąvoką; Vengrys (1973), taip pat didžiausią dėmesį skyręs ekonominės sistemos tyrimui. Šiame straipsnyje tiriama sistemų teorijos įtaka organizacijai valdyti, siekiant apibendrinti įvairių mokslininkų požiūrį į sisteminį organizacijos valdymą ir išskirti pagrindinius sisteminio organizacijos valdymo elementus.

Tyrimo objektas – sisteminio organizacijos valdymo sprendimų struktūra.

**Tyrimo tikslas** – išanalizuoti sisteminio požiūrio į valdymą specifiką ir apibendrinti jo sąveiką su organizacijos funkcionavimu.

Daugelis autorių, nagrinėjusių sistemos sampratą ir funkcionavimo principus, sistemą traktuoja kaip tarpusavyje vienodo pobūdžio ryšiais susijusių elementų visumą, kuri funkcionuoja kaip individualus aplinkos objektas. Mokslinėje literatūroje sistema dažniausiai aprašoma pagal tris dimensijas: 1) sistemos vidinės sandaros požymius; 2) specifinių sisteminių savybių požymius ir 3) sistemos elgesio požymius. Struktūriniu požiūriu sistemą galima pavaizduoti kaip individualizuotą visumos dalį, kuri tam tikrais ryšiais siejasi su aplinka. Realiame pasaulyje visiškai izoliuotu sistemu, nepalaikančiu su aplinka jokių ryšių, neegzistuoja. Todėl sistemos išskyrimas iš visumos gali būti traktuojamas kaip sąlyginis sprendimas, pagrįstas tam tikromis prielaidomis, kurias pakeitus, pasikeistų sistemos struktūra ir santykis su aplinka. Esminis sisteminio požiūrio egzistavimo elementas yra sistema, kurios sampratos analizė reikalauja ištirti pačios sistemos principinę struktūrą ir jos sudedamąsias dalis, kartu identifikuojant sistemos sąsajas su aplinka. Šis aspektas ypač svarbus nagrinėjant organizaciją kaip sistemą, glaudžiai susijusią su įvairiais jos aplinkos elementais. Todėl, nagrinėjant sisteminio organizacijos valdymo koncepciją, pirmiausia reikia detalizuoti sisteminio organizacijos valdymo sprendimų struktūrą.

Organizacijos valdymas sistemų teorijos kontekste gali būti traktuojamas kaip sudėtingas informacinis procesas, kuriam vykstant valdymo sistemos darbuotojai vykdo valdymo funkcijas, reguliuodami visus organizacijoje vykstančius procesus. Valdymo procesų realizavimą organizacijose kaip socialinėse sistemose užtikrina valdymo sistema, kuri sujungia visus organizacijoje vykstančius procesus į visumą – sistemą. Organizacija gali būti apibrėžta kaip du ir daugiau žmonių, turinčių bendrą tikslą ir sąmoningai bendradarbiaujančių, siekiant šio tikslo. Akivaizdu, kad organizacija yra žmonių, kuriuos sieja bendradarbiavimo ryšiai, bendri interesai ir tikslai, grupė.

Viena pagrindinių organizacijos kaip socialinės sistemos savybių yra vientisumas, kurio mastą galima traktuoti kaip atskirų socialinės sistemos elementų (organizacijos narių) tarpusavio interesų suderinamumo laipsnį. Kadangi sistemai apibrėžti neužtenka vien tik atskirų elementų egzistavimo bendroje terpėje, galima teigti, kad vientisumą socialinėje sistemoje iš esmės lemia atskirų sistemos elementų tarpusavio ryšių funkcionavimas. Įvertinus socialinės sistemos funkcionavimui būtiną vientisumo savybę, galima teigti, kad sisteminis požiūris į valdymą yra pagrįstas organizacijos kaip socialinės sistemos elementų (narių) tarpusavio interesų suderinamumo paieška bei šių interesų susiejimu su bendraisiais visos organizacijos

Sisteminė teorija, nagrinėdama organizacijos valdymo sistemos organizacinę sandarą, ją sutapatina su struktūros nagrinėjimu, iš karto nagrinėdama ir elementų (padalinių) sudėtį, ir jų ryšius. Organizacijos valdymo sistema kaip kompleksinis valdymo subjektas gali būti apibūdintas keturiomis pagrindinėmis dimensijomis, nusakančiomis valdymo sistemos realizavimo kontekstą: 1) informacijos rinkimas / analizė; 2) informacijos perdavimas; 3) informacijos perdavimo komunikacija ir 4) informacijos pobūdis valdymo sistemoje. Remiantis šia valdymo sistemos funkcionavimo koncepcija, galima išryškinti informacijos vaidmenį per valdymo sistemos funkcionalumo prizmę. Akivaizdu, kad informacija šiuo požiūriu gali būti traktuojama kaip bet kokios valdymo sistemos struktūrinis pagrindas, sukuriantis valdymo sistemos tikslų įgyvendinimo priemones. Informacijos kontrolės pagrindu analizuojama valdymo sistema leidžia pačią valdymo sistemą traktuoti kaip informacijos srautų valdymo ir komunikavimo procedūrų samplaiką, sukuriančią prielaidas integruotai valdyti visus organizacijoje vykstančius procesus. Šiame kontekste reikia pabrėžti tai, kad informacija yra ne tik perduodamos žinios, bet ir pagalbinė veiklos priemonė, įgalinanti priimti teisingus sprendimus. Toks informacijos termino suvokimas susijęs su dviejų naujų disciplinų – matematinės informacijos ir kibernetikos teorijų – atsiradimu, kuriose informacija traktuojama kaip žinios, kurios visiškai ar iš dalies panaikina iki tol vyravusį neaiškumą.

Organizacijos sisteminį valdymą galima apibūdinti kaip sistemą, susidedančią iš planavimo, organizavimo, kontrolės, monitoringo ir kt. funkcijų integruoto realizavimo, vykstančio dėl įėjimo kintamųjų, kurie traktuojami kaip organizacijos funkcionavimui būtini ištekliai – žmonės, materialinės vertybės, įranga, finansiniai ištekliai. Remiantis ekonomikos teorijos klasikiniais principais, paprastai visus verslo organizacijai reikalingus išteklius galima apibūdinti kaip gamybos veiksnius – žemę, darbą ir kapitalą. Dėl šių įėjimo kintamųjų funkcionuojanti verslo organizacijos procesų sistema generuoja išėjimo kintamuosius – prekes ir paslaugas, kapitalo prieaugį (pelną), darbuotojų pasitenkinimą, pridėtinę vertę visuomenei ir kt. įėjimo ir išėjimo kintamieji susieja verslo organizaciją (sistemą) su aplinka.

Aplinką kaip valdymo sistemą supančių elementų visumą taip pat galima išskaidyti į bendrinius elementus. Klasifikuojant aplinkos elementus pagal įėjimo kintamuosius, galima išskirti tris dedamąsias: darbo, kapitalo ir žemės rinką, kurių tarpusavio santykis lemia naudojamų įėjimo kintamųjų apimtis. Kitu aspektu verslo organizacijos kaip sistemos aplinką galima traktuoti ir kaip ekonominės, politinėsteisinės, socialinės-kultūrinės, ekologinės bei technologinės aplinkų kompleksą, lemiantį verslo organizacijos procedūrų realizavimo sprendimus. Svarbu įvertinti tai, kad visos organizacijos dalys funkcionuoja nuolat susidurdamos su aplinka – konkrečiai sistemai nepriklausančiais elementais, kurie tam tikrais atvejais papildo sistemą arba tampa sistemos funkcionavimo ribotuvais. Organizacijų ir sistemų aplinka gali būti nagrinėjama dviem aspektais, išskiriant bendrąją aplinką ir specifinę aplinką. Bendroji aplinka apibrėžiama kaip aplinka, kurios parametrai aktualūs visoms sistemoms arba organizacijoms. Bendrą aplinką apibūdina natūralioji aplinka. Specifinė aplinka – tai aplinka, kurios parametrai aktualūs tik nagrinėjamai organizacijai. Galimi tokio sistemos parametrai verslo organizacijoje yra gaminamo produkto arba paslaugos paklausos lygis, konkurencijos lygis, specifinė infrastruktūra (kelių sistema, dujotiekio sistema ir t.t.) ar žaliavų gavimo kanalai.

Esminis organizacijos elementas yra socialinė struktūra, kuri gali būti traktuojama dvejopai: kaip normatyvinė, nieko neįkūnijanti aplinka, arba kaip faktinė tvarka, apimanti atskiriems individams taikomas taisykles, draudimus, leidimus ir pan. elementus. Socialinė struktūra paprastai apima organizacijos narius (dalyvius), kurie yra svarbi sudedamoji organizacijos kaip socialinės sistemos dalis. Be to, visos organizacijos dalys funkcionuoja nuolat susidurdamos su aplinka - konkrečiai sistemai nepriklausančiais elementais, kurie tam tikrais atvejais papildo sistemą arba tampa sistemos funkcionavimo ribotuvais. Todėl, straipsnio autorių nuomone, organizacijos kaip sistemos struktūrą galima išreikšti įvertinant tiek vidinių organizacijos elementų tarpusavio sąveiką, tiek ir organizacijos, kaip vientiso elemento, sąryšį su išorinės aplinkos elementais. Tokiu atveju į vidinę organizacijos struktūrą gali būti žiūrima kaip į socialinės struktūros, technologijos, strategijos ir žmogiškųjų išteklių kompleksą, o į išorinę – kaip į organizacijos sąsajas su aplinka per įėjimo ir išėjimo kintamuosius

Apibendrinant sisteminio valdymo specifikos analizę galima teigti, kad organizacijos kaip sistemos valdymą tikslinga sieti su organizacijos vidinės aplinkos elementų (socialinės struktūros, technologijų, strategijos ir žmogiškųjų išteklių) valdymu, sujungiant šiuos elementus į vientisą terpę, kuri betarpiškai kontaktuoja su išorine organizacijos aplinka, naudodama įėjimo (organizacijos valdymui būtinus išteklius) ir išėjimo (organizacijos veiklos rezultatą) ryšius.

Raktažodžiai: sisteminis valdymas, sistemų teorija, organizacijų valdymas.

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