INFLUENCE OF CORPORATE CULTURE ON THE SYSTEM OF MANAGEMENT IN MODERN CONDITIONS*

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Abstract. The main goal of the research of to reveal and classify sectoral and regional peculiarities, affecting the effectiveness of corporate culture use in the system of company management; to determine the character of this influence; to make conclusions on the possibilities of improvement of efficiency of the management at the businesses of the Republic of Tatarstan on the whole and in the petrochemical sector particularly. The authors developed their own conceptual system on the basis of which the research was conducted, namely: the authors’ own understanding of a corporate culture was provided; its structure and functions are determined; factors of influence on corporate culture formation are revealed and classified. Increase of corporate culture role in the system of management, development of all its elements and functional extension compose significant reserve for the improvement of the efficiency of company management.

Keywords: management system; corporate culture; petrochemical sector; sectoral factors; regional factors; management effectiveness

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1. Introduction

Now, under conditions of “new economics”, based on constant generation of product, technological and organizational innovations, strategic competitive advantage is based at the level of business-processes, efficient functioning of which depends on the quality of management (Gafurov et al., 2012).

In virtue of drastic changes of factors of functional environment of modern organizations, the search of new concepts, systems and technologies of management for efficient management is required. The resulting vector of changes suggests transition to “soft management” in various forms (Adizes, 2017), (Hemel, 2009). In this case in the conducted researches a significant role is given to formation of positive corporate culture, agreed with the strategy of organization (Castells, 1996), (Castells, 1997), (Castells, 1998), (Thompson and Strickland, 2013), (McGoff, 2012), (Liker, and Hoseus, 2008), (Bernardi, 2019), (Girdzijauskaite et al., 2019).

The corporate culture, which has among other things guideline value, regulating activities and behavior of people by means of generally accepted informal rules, encourages flexibility and adaptivity of organizations. The authors of the book “Scenario planning: relationship between the future and strategy” singles out the following as the main question in their practical activity as the consultants: “How is it possible to compete successfully under ever-changing conditions?” (Lindgren and Bandkhold, 2009). They think that the answer is the content of such concepts as strategic flexibility, strategic response capability, dynamic capabilities, dynamic core competences, strategic manoeuvring, competing on the edge, robust adaptiveness and “fanky” business. In particular the following contributions for the last 5 years of the 20th century were devoted to the concepts of “strategic flexibility”: “Strategic maneuvering” (D'Aveni, Gunther, 2007), “Strategic reactivity” (Bettis, Hitt, 1995), “Dynamic core capability” (Lei, Hitt et al., 1996), “Dynamic potential” (Teece, Pisano et al., 1997), “Constant innovation” (Chakravarthy, 1997), “Strategic flexibility” (Hitt, Keats et al., 1998); Hamel (Hamel, 2000), “OODA cycle” (Haeckel, Nolan, 1993); (Blaxill, Hout, 1998), “Innovation of strategy” (Hamel, 1998), “Competition on the edge” (Brown, Eisenhardt, 1998), “Healthy” adaptability” (Beinhocken, 1999), “Business in “funky style” (Nordstrom, Ridderstrale, 1999). In fact, all the contributions offer adaptivity by means of surmounting of defense mechanisms, given by nature or acquired in the process of study and practice, using inner potential and, first of all management potential of organizations.

Enhancing the competitiveness level of economic entities is strategically dependent on creation and continuous maintenance, in the process of their functioning and development, more specifically, balance of flexibility and stability, providing efficient management. The problem is solved for each economic entity of its management under constant conditions: there are no ready universal receipts for all the times and they can’t be developed; only general approaches, based on the theory of management and current experience are possible. Under given circumstances successful solutions of the problem are determined to a large extent by the level of management potential of the organization and human capital on the whole. Generalized groups of management transformation factors are given in (Mullakhmetov, 2018).

Traditional management, cultivated among other things in many organization of the Republic of Tatarstan, suggests determination of the system of parameters and maintenance of the activity of organization within these parameters. The procedure, provided by this means, decreases uncertainty level in the activity of organization, guarantees the effectiveness of management within short period of time. In this case modern organizations, being members of market relations, intensively affected by factors of environment, require constant changes.

An attempt to resolve contradictions between the order dictated by the hierarchy and the traditional management on the one hand and the necessity for continuous change dictated by the competitive market environment, on the other hand, by intensifying the goal-setting processes (continuously reviewing the strategy and the tactics for the implementation of strategic goals, breaking down the planning by periods, objects, doers, etc.) does not produce a
desired effect of the enhanced management effectiveness. Such an approach is very costly and quickly becomes virtually inexpedient due to the characteristic features of a competitive environment (multifactorality, variability, uncertainty); it is not always applicable due to a number of restrictions. Fractal management, as possible solution of the problem, can be implemented under conditions of principal quality changes of human capital and management potential and specify increased requirements to the staff, which in its turn, requires cardinal reconstruction of training system of managers, mode of thinking and national culture on the whole (Mullakhmetov, 2018).

As a more delicate non-formal management tool, culture makes it possible to control and regulate human behavior at the level of social interaction, and, by so doing, enables to decrease, in the conditions of continuous changes of the environment wherein an organization functions and develops, the level of uncertainty when making managerial decisions; in case of a positive attitude and alignment with the strategy, the organizations will establish thereby the motives for the achievement of the chosen goals. Therefore, culture enhances the internal potential of an organization and its competitiveness.

The management within which a corporate culture serves as the balancing mechanism and wherein the cultural (symbolical) environment is regarded as an underlying factor determining the condition, development, methods and trends of the organization’s activities may become a significant reserve for enhancing the effectiveness of management and control. M. Casson confirms that “… efficient culture has strong moral content. Moral can overcome problems, which can’t be overcome by formal procedures, based on control over fulfillment of contract conditions. For this reason strong culture decreases transaction costs and increases productivity – success of economics depends on the quality of its culture” (Casson, 2006), (Cummings, 2010, p. 246).

The goal of this research is to reveal sectoral and regional factors, which have the greatest impact of the effectiveness of corporate culture use in the system of company management; to determine the character of their influence, to make conclusion about the possibilities of improvement of efficiency of the management at the enterprises of petrochemical sector the Republic of Tatarstan by means of increase of corporate culture role, as the factor of provision of management adaptivity.

2. Methodology

The methodological basis of the research consists in universal scientific research methods: analysis, synthesis, dialectic, abstraction, methods of system, logical, structural, comparative, statistical analysis, as well as graphical methods, methods of expert evaluations enabling to research the characteristics of the system of management and the subsystem of control in the light of continuous development and interrelation with the factors of the environment wherein an organization functions and develops.

The possibilities of the grounded theory are used as the main research strategy. Initially, a hypothesis is made regarding the existence of sectoral and regional peculiarities having a significant impact upon the effectiveness of using a corporate culture in the management system. Subsequently, the following shall be determined based on the analysis and comparison of the experts’ opinions derived from the open sources (monographs, textbooks, teaching guides; dissertations; articles published in the Russian and overseas scientific editions), as well as based on the analysis of the publications regarding companies’ activities, corporate web-sites, internal corporate documentation received from the open sources:

- the contemporary understanding of a corporate culture, its role and functions in a company management system;
- the main factors that influence the formation of a corporate culture;
- the practice of applying a corporate culture by the Russian and overseas companies in different spheres of activities;

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sectoral and regional peculiarities of the petrochemical enterprises which influence the companies’ management system.

The data accumulated in the course of the research are generalized and grouped in analytical tables by a certain attribute relevant for a certain stage of research. Thereafter, based on the analysis of the data provided, conclusions are made concerning the existence or absence of the sectoral and regional peculiarities influencing the effectiveness of using a corporate culture in the management system, as well as concerning the nature of such influence.

The methodology of research includes the following stages:

1. Analysis of theoretical aspects of forming a corporate culture of an organization;
   1.1. What is understood under a corporate culture; the structure of a corporate culture.
   1.2. Role and functions of a corporate culture in an organization.
   1.3. Main factors influencing the formation of a corporate culture.
2. Generalization and analysis of the practical application of a corporate culture.
   2.1. Structure of a corporate culture in an organization.
   2.2. Main algorithms of operation of a corporate culture as a management and control tool.
   2.3. Significance of a corporate culture in managing a company.
3. Analysis of peculiarities of the petrochemical sector.
   3.1. Peculiar features of the petrochemical sector of the Russian Federation.
   3.2. Peculiar features of the petrochemical sector of the Republic of Tatarstan.
   3.3. Determining the factors that influence the management system of the petrochemical enterprises.
4. A comparative analysis of the practical application of the corporate culture at the enterprises of the Republic of Tatarstan with its Russia-wide and worldwide practical application.
   4.1. Detection of the influence exerted by sectoral peculiarities on the effectiveness of using a corporate culture in the management system.
   4.2. Detection of the influence exerted by regional peculiarities on the effectiveness of using a corporate culture in the management system.

3. Results

At the first stage, a conceptual system was developed based on which the work was conducted at the remaining stages of the research. In the context of management a corporate culture is a system of social standards and norms that are recognized and adopted by a majority of the organization’s employees and that ensures a desired behavior and acts of the personnel based on the principles of self-management and self-control, developing horizontal links in the management system and facilitating the formation of informal institutes in the internal space of an organization. A corporate culture is viewed as a result of the response by the management to the changes of the market environment.

In our work we proceed from the following functions fulfilled by a corporate culture in the management system:

1. Decreasing complexity and uncertainty due to creating an internal institutional environment and enabling its continuity, and, hence, enhancing the quality and effectiveness of managerial decisions and of the entire management process.
2. Integrating function:
   • joining the components of structures and processes on the basis of the generally accepted values;
   • ensuring a relation between the mission and strategy with the day-to-day activities;
   • team-building.
3. Enhancing the effectiveness of the personnel performance due to:
   • motivation by uniting for general goals and commitment to lofty principles;

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• creating effective communications;
• improving the team climate.

4. A factor to ensure the balance between the consistency and flexibility of management.

5. Creating a distinguishing favorable image for the external environment.

The corporate culture structure we offer is as follows:

1. Value basis of a company (company mission, corporate goals and the goals of the company’s top management and owners, main values of the company’s top management and owners);

2. Value basis of the corporate culture;

3. Functions of a corporate culture as a management and control tool;

4. Manifestation of a corporate culture;

5. A mechanism for implementation of a corporate culture as a management and control tool (the indicators assessed, the persons responsible, the verification method).

Taking into account the peculiarities of the contemporary management, we shall subsequently proceed from an assumption that the following groups of factors influence the formation of a corporate culture:

1. External factors:
   • location, environment, situation in the society and economy, peculiarities of the market, sectoral specifics;
   • contacts with various groups concerning different events and actions taken by organizations (for example, the work with the Western companies is important for the Russian enterprises);
   • essential changes in the properties of a human capital (educational level, civic maturity, changes in motivation);
   • dynamic growth of the uncertainty level of the business environment;
   • cultural environment (national, regional, business cultures).

2. Internal factors:
   • the organization’s history of establishment and representation of the top officials;
   • characteristic features of an organization (kinds of activity, size, basic functions and technologies, goals and objectives, ownership forms);
   • characteristic features of the management system (leadership style, correlation of formal and non-formal institutes, work with the personnel, personal properties of a manager/leadership properties);
   • personal system of values and rules of the workforce;
   • experience of interaction with the external environment.

In the course of analyzing the practical application of the corporate culture by the Russian and overseas enterprise we researched the activities of 10 companies, of which 8 were from the petrochemical and 2 – companies from the automotive sector. 2 major overseas companies (Shell, British Petroleum), 2 major Russian companies (Rosneft, Gazprom) and 4 leading Tatarstan companies of this sector (Tatneft, Nizhnekamskneftekhim, Kazanorgsintez, Ammoniy) from petrochemical sector were examined. In order to gain a more complete picture of the contemporary tendencies in the development of the corporate culture and for the purpose of comparative analysis and assessment of the leading companies in the automobile sector were also researched, Toyota and KAMAZ. The information for the analysis of the companies was derived from the open sources.

The research resulted in the following findings:

1. The level of the corporate culture artifacts in the absolute majority of the researched companies is sufficiently well developed (the companies carry out full-fledged work on forming the external level of the corporate culture).

2. Most of researched companies have gaps in many trends at the level of the corporate culture values.
3. The corporate values system in all of the companies is highly developed; however, we were not always able to definitely track, based on the open sources alone, the mechanisms of interaction of the corporate values system (missions, strategic objectives, etc.) with the values of the companies’ corporate culture.

4. As a management and control tool the corporate culture may manifest itself as follows:
   • it may influence the personnel management system, namely, determine the systems for personnel hiring, dismissal, reward, punishment, development, career advancement. According to the open sources, in the majority of the researched companies the corporate culture only exerts a partial influence on the personnel management system. Thus, it was discovered that all companies have put in place their own personnel development systems, and, with very few exceptions, the personnel hiring systems. The remaining elements of the personnel management system are either underdeveloped or altogether absent;
   • to facilitate socialization of the employees, form the labor conditions (these elements are well developed in all of the researched companies);
   • to facilitate development of horizontal, vertical and direct backward links in the management system (in the absolute majority of the researched companies the corporate culture has little influence on the establishment of the aforementioned kinds of links);
   • to influence the characteristic features of the management system (priority of the social and humanitarian component, active participation of employees in the adoption of managerial decision, reduction of the management levels, quick response to the requests of the company employees, removal of barriers between the management and the subordinates). According to the accumulated data, in the absolute majority of the researched companies the influence of the characteristic features of the corporate culture upon the characteristic features of the management system is limited.

5. An inference can be made that among the researched companies the corporate culture plays the crucial role in Toyota only. Democratic principles of governance and “soft” methods of control are developed here. The analyzed managerial procedures are standardized and definitively formulated in the company. Almost all of the indications evidencing the significance of the corporate culture in the company’s management were detected.

The research uncovered the sector-wide, national and regional factors determining the specific features of the petrochemical sector. Those factors were subdivided into the following groups:
   • institution-specific;
   • infrastructure-specific;
   • economic;
   • market-specific;
   • those related with the staffing and provision of resources;
   • those related with investments and accessibility of funds;
   • those related with the technical and technological bases;
   • those related with the corporate management and property rights protection;
   • those related with management and corporate culture.

5. Discussion

At the moment there is no uniform understanding of corporate culture and its structure; the role of corporate culture in modern management; the means the functions of corporate culture are implemented by; factors, which determine characteristics and role of corporate culture in the organization, the possibility of their quantitative assessment; tools of corporate culture, which can affect the internal environment and eliminate contradictions of management system.

1. The following groups of opinions on those matters were singled out:
   a) most often, a corporate culture is understood as follows:
Table 1. Groups of Concepts of “Corporate Culture”

<table>
<thead>
<tr>
<th>What the author is primarily focused on in the concept of “corporate culture”</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Collective basic vision/totality of basic assumptions (myths)/totality of basic beliefs/a system of publicly and collectively acceptable notions/totality of the most important mutual understandings</td>
<td>(Gaponova, O., 2011), (Kozlov, V., 2009), (Kondratyev, E., 2011), (Cooper, C., 2014), (Mullins, L., 2003), (Porsheve, A., 2012), (Kibanov, A., 2003), (Shermerorn, J., Hunt, J., Osborne, R., 2004)</td>
</tr>
<tr>
<td>3. The observed recurring behavioral models/totality of standards and stereotypes of employee behavior</td>
<td>(Gaponova, O., 2011), (Krylov, B., 2010)</td>
</tr>
<tr>
<td>5. Sensation or climate/organization’s environment</td>
<td>(Zakablutskaya, E., 2014), (Pierce, II. J., Robinson, R., 2013)</td>
</tr>
<tr>
<td>6. Problem solving methods acquired through experience</td>
<td>(Gaponova, O., 2011), (Sarkisov, S., 2005)</td>
</tr>
<tr>
<td>8. The essence of an organization/key comparison in the organization’s concept/internal component of an organization; (19, 20).</td>
<td>(Greenberg, D., &amp; Beyron, R., 2004), (Liker, J. 2017), (Krol, L., Purtova, E., 2004), (Smircich, L., 1983), (Smircich, L., 1985)</td>
</tr>
<tr>
<td>9. Factor influencing the effectiveness of the economic activity/factor uniting the organization’s employees</td>
<td>(Karof, B., &amp; Lovingsson, F., 2006), (Vlasova, E., 2010), (Gaydarzhi, E., 2007), (Korotkov, E., 2004), (Mullins, L., 2003), (Sarkisov, S., 2005)</td>
</tr>
<tr>
<td>10. Corporate culture is an innovative cultural form, distinct from organizational culture</td>
<td>(Kapitonov, E. A., Zinchenko, G. P., Kapitonov, A. E., 2005)</td>
</tr>
<tr>
<td>11. Generated in the result of cooperation of internal factors of belief system, ideas, related to company management, the strategy of its development, means and methods of achieving goals and management decisions making, with business ethics of the organization, which shows its main values, shared by the majority of staff members, aimed at the improvement of inner potential of the organization.</td>
<td>(Mullakhmetov et al., 2018)</td>
</tr>
</tbody>
</table>

b) the following functions performed by the corporate culture are singled out most often:

Table 2. Basic Functions Performed by the Organization’s Corporate Culture

<table>
<thead>
<tr>
<th>Functions Performed by a Corporate Culture</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Relation of a mission and strategy with the day-to-day activities</td>
<td>(Gaponova O., 2011), (Selivanova M., 2016)</td>
</tr>
<tr>
<td>2. Increasing consistency of the company’s performance due to forming a definite internal institutional environment and ensuring its continuity</td>
<td>(Gaponova, O., 2011), (Daft, R., 2006), (Mogutnova, N., 2005), (Panferova, N., 2011)</td>
</tr>
<tr>
<td>3. Management and control tool: consciously generating positive corporate culture, you can influence behavior and activity of the staff, which determine performance and effectiveness of the organization.</td>
<td>(Mullakhmetov et al., 2018)</td>
</tr>
</tbody>
</table>
5. Enhancement of manageability of an organization at the expense of creating effective internal communications (Daft, R., 2006), (Mogutnova, N., 2005), (Selivanova, M., 2016)

6. Creating a distinctive image for the external audiences (Gaponova, O., 2011), (Mogutnova, N., 2005), (Panferova, N., 2011)


8. Employee motivation due to commitment to lofty principles and unification for achievement of common goals (Daft, R., 2009)


10. Improvement of climate in the collective due to employee satisfaction (Mazur, I., 2003), (Pierce, II. J., Robinson, R., 2013)


12. Team-building (Cooper, C., 2014)

c) the following factors influencing the formation of the corporate culture are singled out most often:

**Table 3. Basic Factors Influencing the Corporate Culture Formation**

<table>
<thead>
<tr>
<th>Factors Influencing the Corporate Culture Formation</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External factors</strong></td>
<td></td>
</tr>
<tr>
<td>- industry specifics</td>
<td>(Panferova, N., 2011)</td>
</tr>
<tr>
<td>- market specifics</td>
<td>(Pervakova, E. 2015)</td>
</tr>
<tr>
<td>- situation in economy, society</td>
<td>(Pervakova, E. 2015)</td>
</tr>
<tr>
<td>- samples of conducting entrepreneurial activities by the management companies</td>
<td>(Pervakova, E. 2015)</td>
</tr>
<tr>
<td>- history, location, environment</td>
<td>(Mullins, L., 2003)</td>
</tr>
<tr>
<td>- contacts with different groups concerning different events and acts of an organization</td>
<td>(Greenberg, D., &amp; Beyron, R., 2004)</td>
</tr>
<tr>
<td>- dynamic growth of the level of uncertainty of the environment</td>
<td>(Schein, E., 2013)</td>
</tr>
<tr>
<td>- change of environmental factors that significantly affect the functioning and development of modern organizations</td>
<td>(Adizes, I. 2017), (Kibanov, A., 2003), (Akmaeva, 2017)</td>
</tr>
<tr>
<td><strong>Internal factors:</strong></td>
<td></td>
</tr>
<tr>
<td>- representation of top managers</td>
<td>(Panferova, N., 2011)</td>
</tr>
<tr>
<td>- ownership form</td>
<td>(Torgunakova, E., 2010)</td>
</tr>
<tr>
<td>- production technologies</td>
<td>(Torgunakova, E., 2010)</td>
</tr>
<tr>
<td>- employee personal system of norms and values</td>
<td>(Neretuna, E., 2006)</td>
</tr>
<tr>
<td>- basic functions and technologies, goals and objectives, size, employee management and recruitment system</td>
<td>(Mullins, L., 2003)</td>
</tr>
<tr>
<td>- company founders, experience of interaction with environment</td>
<td>(Greenberg, D., &amp; Beyron, R., 2004)</td>
</tr>
<tr>
<td>- company founders; ethical values, rules and standards that reflect them</td>
<td>(George, J, Jones G., 2003)</td>
</tr>
<tr>
<td>- a good leadership component (vision, personal example, insistence and principles)</td>
<td>(Pierce, II. J., Robinson, R., 2013)</td>
</tr>
<tr>
<td>- managerial ideology and managerial potential</td>
<td>(Kukura, S., 2004)</td>
</tr>
<tr>
<td>- fundamental changes in the characteristics of human capital and socio-cultural factors</td>
<td></td>
</tr>
</tbody>
</table>

6. Conclusion

The petrochemical enterprises’ culture has a number of generalized characteristic features.

1. A high level of artifacts of the companies’ corporate culture, with the enterprises normally carrying out full-fledged work for forming the external level of the corporate culture.
2. At the level of the values of the companies’ corporate culture gaps were detected in many trends: those values are either underdeveloped or are predominantly declarative and not based on the actual mechanism of implementation of the declared values.

3. The enterprises have a well-developed system of corporate values, but the mechanisms of interrelation of the corporate values system (missions, strategic objectives, etc.) with the corporate values culture weakly manifest themselves in the companies.

4. As a management and control tool the corporate culture may be manifested as follows:
   a) to influence the personnel management system, namely, determine the systems for personnel hiring, dismissal, reward, punishment, development, horizontal and vertical career advancement (in the petrochemical sector the corporate culture only exerts a partial influence on the personnel management system);
   b) to facilitate employee socialization, to create the labor conditions (those elements are well-developed in the petrochemical companies);
   c) to facilitate horizontal, vertical, direct backward links in the management system (in the majority of companies the corporate culture has little influence on the establishment of links);
   d) to influence the characteristic features of the management system (priority of the social and humanitarian component, active participation of employees in the adoption of managerial decision, reduction of the management levels, quick response to the requests of the company employees, removal of barriers between the management and the subordinates (in the absolute majority of the researched companies the influence of the characteristic features of the corporate culture upon the characteristic features of the management system is limited).

5. The significance of the corporate culture in the management is weakly manifested in the petrochemical businesses.

6. Summary

Based on the results of the research the specific regional and regional factors influencing the management system of the petrochemical enterprises were determined (Table 4 and Table 5).

**Table 4. Sector-Wide Factors Influencing the Management System and Corporate Culture of the Petrochemical Enterprises**

<table>
<thead>
<tr>
<th>Factor determining the specific features of the petrochemical sector</th>
<th>Factor Description</th>
<th>Where it is reflected in the organization’s activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional factors related with the actions of authorities</td>
<td>Strong influence of environmental protection requirements</td>
<td>Development of corporate programs related with the environmental protection</td>
</tr>
<tr>
<td></td>
<td>Active participation of the state in the creation of petrochemical clusters</td>
<td>Establishment and development of close connections with the governmental structures</td>
</tr>
<tr>
<td></td>
<td>The already existing system of corporate organizations within the oil complex, whose activities was directed at protecting the commercial interests of the sectoral business</td>
<td>Establishment and development of inter-sectoral interrelations</td>
</tr>
<tr>
<td></td>
<td>Effective development of the national petrochemical industry is largely dependent on the character and degree of the state participation of the state in this process</td>
<td>Establishment and development of close relations with the federal authorities</td>
</tr>
<tr>
<td></td>
<td>The Russia’s government follows the policy of supporting the major integrated oil companies and industry consolidation</td>
<td>Formation of the administrative resource</td>
</tr>
<tr>
<td>Infrastructural</td>
<td>Priority of the cluster development of the industry, formation of 6 petrochemical clusters</td>
<td>Establishment and development of close inter-sector relations</td>
</tr>
</tbody>
</table>
Availability of major vertically integrated structures  
Insufficient integration of the petrochemical complex production enterprises  
Establishment and development of close relations with other enterprises involved in technological production chains  
Establishment and development of close inter-sector relations

### Economic

High growth rates  
Shift of large-scale petrochemical production enterprises  
Shift of the focus of traditional petrochemical regions  
Establishment and development of inter-governmental relations

### Factors related with the technical and technological bases

The chemical complex is one of the most science-driven sectors  
Complexity and close technical relationship of different production stages and use of resources  
Establishment and development of close relationships with other enterprises involved in technological production chains

### Factors related with corporate management and protection of ownership rights

Drop in the level of confidence between the management and the company employees  
The gaspetrochemical complex was exposed to a frequent change of control; there were illegal takeovers of the assets  
A part of oil companies got involved in shadow business  
When products were high-priced, the company owners used to spend a considerable portion of profits for paying dividends rather than upgrading their enterprises  
Development of internal communications, formation of a corporate culture  
Creation of the corporate control systems, including those government-linked  
Development of financial control

### Table 5. Regional Factors Influencing the Management System and the Corporate Culture of the Petrochemical Enterprises

<table>
<thead>
<tr>
<th>Regional Factor</th>
<th>Factor Description</th>
<th>Where it is reflected in the organization’s activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institutional factors related with the actions of authorities</td>
<td>Considerable attention is given RT’s gaspetrochemical complex at governmental level</td>
<td>Establishment and development of close relationships with the regional and local authorities</td>
</tr>
<tr>
<td>Infrastructural factors</td>
<td>Tatarstan is included in the Volga-region gaspetrochemical cluster</td>
<td>Establishment and development of close inter-sectoral and intra-sectoral relationships</td>
</tr>
<tr>
<td></td>
<td>Availability of a well-developed transportation infrastructure and manifold regional and foreign economic relationships</td>
<td>Establishment and development of inter-regional relationships</td>
</tr>
<tr>
<td></td>
<td>Establishment and development of inter-sectoral and intrasectoral relationships</td>
<td>Establishment and development of international relationships</td>
</tr>
<tr>
<td>Economic</td>
<td>The gaspetrochemical complex is the basic sector of the Republic of Tatarstan’s industry. It has the cardinal significance for the functioning of all the sectors of the economies of the Republic of Tatarstan and Russian Federation.</td>
<td>Establishment of the corporate control systems, including those with the participation of the regional authorities.</td>
</tr>
<tr>
<td>Market-related</td>
<td>The gaspetrochemical complex of the Republic of Tatarstan has internal neighboring receptive sales markets for chemical and petrochemical products</td>
<td>Establishment and development of inter-regional relationships</td>
</tr>
<tr>
<td></td>
<td>The Republic of Tatarstan tops Russia in terms of the majority of foreign economic transactions</td>
<td>New personnel incentives have appeared</td>
</tr>
<tr>
<td>Factors related with the technical and technological bases</td>
<td>The Republic of Tatarstan hosts a number of the gaspetrochemical companies that are the largest not only in Russia, but in Europe as well</td>
<td>Entering new markets, output of new commodities</td>
</tr>
</tbody>
</table>
of the Republic of Tatarstan is planned to expand the existing production capacity of its enterprises and to build new ones.

The petrochemical enterprises are characterized by a number of sectoral and regional peculiarities having both a positive and a negative impact upon the effectiveness of using a corporate culture in the management system. The following may be regarded as positive:

Sector-related factors:
- a tradition to maintain plant museums; a growth of interest of the oil-sector companies’ employees to the history of their sector; development of publishing and exhibition activities; traditions of maintaining professional skills, awarding titles of those best in the occupation, recognition of veterans of war and labor; a higher level of income and salaries as opposed to other sectors, new employee incentives;
- a high level of artifacts of the companies’ corporate culture, with the enterprises normally conducting work aimed at reaching the highest level of the corporate culture;
- a system of corporate values is well-developed in the petrochemical companies;
- a corporate culture may sufficiently facilitate socialization of employees and create labor conditions at the petrochemical companies.

Regional factors:
- a profound sense of duty and responsibility in every company employee;
- avoidance of conflicts, and if any arise, the participants make mutual concessions and reach a consensus;
- good interpersonal relationships, comfortable psychological climate in the labor teams.

The factors that have a negative influence on the effectiveness of using a corporate culture in the management system of the petrochemical companies are as follows.

Sectoral factors:
- At the level of the values of the companies’ corporate culture gaps exist in many trends: those values are either underdeveloped or predominantly declarative and not based on the actual mechanism of implementation of the declared values.
- The mechanisms of interrelation of the corporate values system (missions, strategic objectives, etc.) with the corporate values culture weakly manifest themselves in the companies.
- In the absolute majority of the petrochemical companies the corporate culture has little influence upon the development of horizontal, vertical and direct backward links in the management system;
- the petrochemical companies experience limited influence from the characteristic features on the characteristic features of the corporate culture.
- great significance of the administrative resource;
- great significance of establishment and development of close relationships with the federal authorities, of intra-sectoral and inter-sectoral relationships, relations with other enterprises included in the technological production chains.

Regional factors:
- great significance of establishment and development of close relationships with the regional and local authorities;
- predominance of a bureaucratic (hierarchical) culture;
- authoritarian leadership style;
- hierarchical relations, authority of a job title, discipline and order are the basic values at an enterprise;
- avoidance of risks, prioritization of companies’ goals;
• formalism, leading role of instructions and procedures, authoritarianism, low initiative and low creative activities.

Therefore, only certain corporate culture components are sufficiently developed at the petrochemical enterprises of the Republic of Tatarstan, i.e., those that are mainly connected with the external level of the corporate culture, whilst within the companies the number of functions that the corporate culture performs is limited. A number of sectoral and regional factors, both positive and negative, have an impact upon the effectiveness of using a corporate culture in the petrochemical companies’ management system, with the factors that negatively influence the effectiveness of using a corporate culture in the management system being predominant. Among those the most essential are the significance of administrative resources, authoritarian leadership style and formal management methods.

All of that to a large extent results in the corporate culture having low significance for company management at the petrochemical enterprises of the Republic of Tatarstan, which only confirms that there is an essential reserve for boosting the company management effectiveness at the expense of enhancing the corporate culture significance, broadening its functions and developing all of its components.

The existing level of the corporate culture development at the Republic of Tatarstan’s enterprises as a whole, and at the petrochemical enterprises in particular means that underdeveloped social and cultural toolkit in the management system is today one of the main factors preventing the introduction of new effective management systems and technologies.

The business environment of the Russian companies has, due to a variety of reasons, underdeveloped market institutes, whilst the already existing ones differ from their analogues in the developed market, which causes additional difficulties for putting in place new technologies. In addition, the management effectiveness decreases due to the applicable technologies of development, adoption and implementation of managerial decision in the framework of the strict hierarchy under the conditions of a minimum formalized involvement of personnel in that process, as well as to the stiff control procedures aimed at assessing the actions of the personnel, thus nurturing their sense of duty rather than initiative and creativity.

Enterprise management in the petrochemical sector is mainly aimed at stability; characteristics determined in the process of research can’t guaranty the required level of flexibility (adaptivity) in modern business environment.

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