Defining the Differences in Corporate Culture in Woodprocessing and Forest Enterprises

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Corporate culture represents a personality of a company. Suitable corporate culture should be a summary of behavior and action of the company as a whole and its individual employees on their way to achieving the strategic goals of the company. Using the Organizational Culture Assessment Instrument methodology, the corporate culture on a sample of 1,114 respondents in wood-processing and forest enterprises in Slovakia is defined and compared. The hypothesis that there were statistically significant differences between wood-processing and forest enterprises in individual components of corporate culture is confirmed in the paper. The differences in the perception of corporate culture in the area of organizational leadership and criteria of success can be considered the research output. In the area of organizational leadership, there are significant differences in the respondents' opinions. In the area of criteria of success, employees of the wood-processing enterprises preferred the success of these companies based on the development of human resources and teamwork. There were no significant differences in the area of overall corporate culture. Both groups of employees preferred clan corporate culture.

Keywords: Corporate culture; Wood processing enterprises; Forest enterprises; OCAI; t-test

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INTRODUCTION

The continuing economic intensification of globalization motivates enterprises to create strategies that can help them to succeed in a hyper-competitive environment (Lizbetinova 2014; Kucharciková *et al.* 2015; Musová 2015; Nedeliakova and Panak 2015; Poliačiková 2015; Bartuška *et al.* 2016a, b; Ližbetin *et al.* 2016; Nedeliakova *et al.* 2016; Potkany *et al.* 2016; Lizbetinova 2017; Nemec *et al.* 2017; Oblak *et al.* 2017; Zaborova *et al.* 2017; Jenco *et al.* 2018; Loucanova *et al.* 2018; Nyvlt 2018; Anyakoha 2019; Horváth and Hollósy 2019; Kohnová *et al.* 2019; Nyuur *et al.* 2020). Therefore, focusing on performance is crucial in an effort to survive. In this context, the corporate culture represents a major element of business management, which is supported by existing studies (Ogbonna and Harris 2000; Škerlavaj *et al.* 2011; Rezaei *et al.* 2016; Mullakhmetov *et al.* 2019; Vlaicu *et al.* 2019) and has a significant impact on their performance. An overview of actual literature associated with the corporate culture is given in this paper.

Corporate culture represents a personality of a company; suitable corporate culture should be a summary of behavior and action of both the company as a whole and its

individual employees on their way to achieve strategic goals of the company (Jahanian and Amini 2015), as well as employees' personal objectives (Muhtadi *et al.* 2013). On a general level, climate perceptions are viewed as a way to provide a mediating link between organizational characteristics and employee attitudes, motivation, and performance (Parker *et al.* 2003). Organizational culture, teamwork, and organizational development have a direct and significant effect on organizational commitment (Ghorbanhosseini 2013). For this reason, good examples of leader behaviors are desirable, which may in turn effectively motivate employees to follow them (Huang *et al.* 2008). This indicated that if the employees were internally in agreement with the set corporate culture, they also had internal motivation to act and behave in accordance with the corporate culture, because this behavior was natural for them and the work environment was satisfactory.

The existing culture of the organization is externally manifested by the external elements of culture. Like the symbolic artifacts of material nature (badges, logos, pictures, style, correspondence format, building architecture, *etc.*), the verbal symbols (jargon, jokes, metaphors, proverbs, slogans, stories, legends, myths, sagas, *etc.*), the symbolic behavior and acting (traditions, behavioral norms, codes, rituals, ceremonials, *etc.*), the status symbols (traditional designations of job functions like president, inspector, *etc.*), various titles awarded in recognition of employee's work (*e.g.*, the best employee in the organization), or the tangible assets pertaining to the individual, in particular to the higher functions (size, location, and equipment in the office with furniture, art, plants, secretary, company car, cellphone, membership of clubs, business cards, *etc.*) (Stacho and Stachova 2015) all exhibit corporate culture.

The corporate culture can be affected in a relatively easy way, primarily using direct measures because they can be clearly named and easy to understand and grasped by the employees. However, it is considerably more difficult to affect the internal elements of culture, such as values, opinions, and convictions. It is not sufficient only to adopt direct measures for the employees to internalize them; it is necessary to affect the employees through indirect tools. A major factor is employee motivation, both internal (agreement between the values of the employee and the values of the organization) and external in the form of stimuli characterizing the reward system as a method of clear expression of the values of the organization. This is a key factor for the employees to understand corporate culture (Brown 1995; Da Silva et al. 2010; Kropivšek et al. 2011; Kmecová 2018; Kucharčíková and Mičiak 2018; Sánchez-Sellero et al. 2018). An important role of this activity is played by the employee's supervisor, who should be in the position of instructor. A system of individual functions for managing human resources plays an important role as well, through which the suitable culture can be spread and promote (Bajzikova et al. 2013; Joniakova and Blstakova 2015; Urbancova et al. 2016; Kucharčíková and Mičiak 2017; Cagáňová et al. 2019; Remisova et al. 2019).

Unfortunately, in terms of management, corporate culture is one of the so-called soft areas, which are inherently difficult to measure, and therefore the leader of the organization considers it as an additional activity during crisis or troublesome periods of the organization. Although the suitable corporate culture is pushed to the background, it has direct effect on the performance and resulting financial success of the organization (Ogbonna and Harris 2000; Škerlavaj *et al.* 2011; Rezaei, *et al.* 2016). Based on this present research, suitable corporate culture contributes to the long-term sustainability of business performance and it is a source of competitive advantage (Scott 1997; Colyer 2000; McShane and Von Glinow 2000; Yong and Pheng 2008; Cheung *et al.* 2011; Vallejo-Martos

2011; Cui and Hu 2012; Vetraková *et al.* 2015; Nukic and Huemann 2016; Vetraková and Smerek 2016; Papula *et al.* 2018). It is clear that corporate culture reduces conflicts, ensures continuity, facilitates and simplifies coordination and control, reduces employee insecurity and affects their work satisfaction and emotional wellbeing. Moreover, it can be a major source of motivation and a competitive advantage (Lukášová 2010). The justification of corporate culture and its effects on performance, profitability, and business sustainability have been constantly confirmed by authors like Deal and Kennedy (1982), Denison and Spreitzer (1991), Kotter and Heskett (1992), Kreitner and Kinicki (2001), Lencioni (2002), Cameron and Quinn (2006), Ravasi and Schultz (2006), Hofstede *et al.* (2007), Radovic-Markovic (2008), Cheung *et al.* (2011), Vallejo-Martos (2011), Belias *et al.* (2015), Schein and Schein (2016), Coyle (2018), and many others since the 1980s. The survey conducted by Armstrong Competence Consulting Company (2009) showed that up to one fifth of employee performance could be explained by the differences in corporate culture. Given this, there can be no doubt about the importance and effect of corporate culture on employee performance.

Clear corporate culture is becoming an important added value of products and services offered by an organization in the market, a determinant of relationships between business and other partners, but mostly a differentiating aspect of the organization in terms of present and potential employees as well as a tool to manage and motivate people in the organization (Uriga and Obdržálek 2009). However, in terms of the practical implementation, it is important for the top managers to realize the corporate culture as an actual tool affecting staff intentionally and systematically (perfect, motivate, cultivate, and manage) and ensuring the long-term achievement from the desired performance level of a given organization (Kachaňáková and Stachová 2014).

Corporate culture strength and content depend on the specific organization and its conditions. The content of corporate culture consists of basic assumptions, values, behavioral standards, attitudes, and artefacts (Jančíková 2005). The strength of corporate culture is defined by the coherence, homogeneity, stability, and intensity of values or the measure of their infiltration (Lukášová and Nový 2004). The content of the culture is embodied through the behavior and artefacts. Some researchers (Saffold 1988; Gordon and Ditomaso 1992) attempted to define specific values of the enterprises in relation to performance and business success. Many studies (Kotter and Heskett 1992; Pfeifer and Umlaufová 1993; Lukášová and Nový 2004; Hofstede *et al.* 2007; Armstrong Competence Consulting Company 2009; Kachaňáková 2010) agreed that for high business performance it is necessary the content of corporate culture agrees with external environment, conditions of the sector, and business strategy to match the context. The greater the agreement between the corporate culture and the context of the business, the better results the enterprise will be able to achieve.

One of the tools allowing managers to divide, classify, clarify, and analyze the complicated content of social reality is the construction of typologies. Types or typologies as sets of types are a learning tool that makes it possible to simplify and, to a certain extent, to organize otherwise intricate and complicated content of reality. They are developed in two ways: theoretically and empirically. Theoretically, the constructed types are planned, created systems of selected characteristics of given phenomenon. The selection of the characteristics is governed primarily by the effort devoted to simplify the complexities of classes of phenomena and to capture the most essential characteristics, which can create differences between individual groups of phenomena. They are created to describe,

compare, and predict actual events. The purpose of the empirical typologies is similar, but they are created using an analysis of empirical data and subsequently they are theoretically conceptualized.

In the area of corporate culture, the development of typologies is a relatively popular subject. The existing typologies identify the typical content of corporate culture from different perspectives, in relation to the different purpose, such as the analytical approach (Harrison 1972; Handy 1985), the levels of business risk and market feedback (Deal and Kennedy 1982; Steinmann and Schreyögg 1993), the flexibility level vs. control and rate of internal vs. external focus (OCAI) (Quinn and Rohrbaugh 1983), dominant orientation during change, business lifecycle (Kachaňáková et al. 1997), types of employees (McNamara 2006), mental state of the employees (Kets de Vries and Miller 1984), possibility of change (Bowett 2006), or the method of business' adaptation to internal environment (Miles and Snow 1978). Despite the fact that the typologies of corporate cultures represent a great simplification and do not capture all aspects of life of the organization, they represent certain basic types, and some can be found with certain modifications in many organizations. Parallel coexistence of two or several types of these cultures can be encountered. The typologies have a theoretical meaning that they deepen scientific understanding in a given field (Deal and Kennedy 1982; Denison and Spreitzer 1991; Kotter and Heskett 1992; Cameron and Quinn 2006; Belias et al. 2015; Schein and Schein 2016; Coyle 2018), and a practical meaning that they allow managers to compare the content of their corporate culture with typical, real-life cases (Yeung et al. 1991; Zammuto and Krakower 1991; Wilderom et al. 2000; Parthasarathy and Ramalingam 2015; Willar et al. 2016; Bergman et al. 2017). Typical situations when organization management needs to know and understand the content of corporate culture are for example the development of business strategy, solving the issue of difficult implementation of the selected strategy, searching for reasons for low business performance, or planning the business mergers, acquisitions, etc.

Comparing the corporate culture in wood-processing and forest enterprises, and subsequently, defining the preferred corporate culture in the analyzed organizations and their differences is the goal of this paper.

EXPERIMENTAL

The research into corporate culture was conducted throughout the years 2016 and 2019. Employees of wood-processing enterprises (WPE) and forest enterprises (FE) in Slovakia were addressed using the random selection method. In the case of wood-processing enterprises, employees working in wood, furniture, and cellulose-paper enterprises were addressed. The wood-processing industry is an important part of the industry in the Slovak Republic. It is relatively independent on the import of natural resources and it also allows the development of small and medium-sized enterprises (Suchomel and Gejdos 2007; Hajdúchová *et al.* 2016; Mala *et al.* 2019; Palus *et al.* 2019). Employees of forest enterprises participated in the research as well. In terms of fulfilling nationwide functions, they play the most important role in the Slovak economy (Forest Europe 2015; Balážová and Luptáková 2016; Ministerstvo Pôdohospodárstva a Rozvoja Vidieka Slovenskej Republiky 2017; Kovaľová *et al.* 2018; Parobek *et al.* 2019). The forest sector represents 0.33% of the gross domestic product (GDP) in the Slovak Republic. There

are between 1,200 and 1,300 enterprises in this sector. The profits range between 220 and 240 million Euros. Due to the historical development, this specific sector is dominated by men (3:1 ratio) with a secondary education completed (Suchomel and Gejdos 2010; Paluš *et al.* 2011; Sujová and Kovalčík 2017; Halaj *et al.* 2018).

Data Collection and Sample Size

The research employed the social survey methodology *via* anonymous questionnaires. The questionnaire consisted of two parts. The first part of the questionnaire examined the basic socio-demographic characteristics (gender, age, completed education, number of years worked in the business, and job category). The composition of the research sample is presented in Table 1.

 Table 1. Composition of the Research Sample

Indicator		Wood-processing Enterprises		Forest Enterprises		Total	
		Absolute	Relative	Absolute	Relative	Absolute	Relative
Gender	Male	378	62.07	315	62.38	693	62.21
Gender	Female	231	37.93	190	37.62	421	37.79
	Under 30 years	154	25.29	133	26.34	287	25.76
٨٥٥	31 to 40 years	242	39.74	172	34.06	414	37.16
Age	41 to 50 years	157	25.78	138	27.33	295	26.48
	51 years and over	56	9.20	62	12.28	118	10.59
	Primary education	82	13.46	99	19.60	181	16.25
Education	Lower education	161	26.44	94	18.61	255	22.89
Education	Upper education	229	37.60	155	30.69	384	34.47
	Higher education	137	22.50	157	31.09	294	26.39
	0 to 1 year	60	9.85	47	9.31	107	9.61
	1 to 3 years	125	20.53	154	30.50	279	25.04
Seniority	4 to 6 years	90	14.78	115	22.77	205	18.40
	7 to 9 years	200	32.84	45	8.91	245	21.99
	Over 10 years	134	22.00	144	28.51	278	24.96
	Managers	86	14.12	82	16.24	168	15.08
Working Position	White-collar workers	227	37.27	211	41.78	438	39.32
	Blue-collar workers	296	48.60	212	41.98	508	45.60

Methods of Research Evaluation

The second part of the questionnaire was based on the Organizational Culture Assessment Instrument (OCAI) questionnaire methodology based on the Competing Values Framework (Quinn and Rohrbaugh 1983). The framework is the synthesis of organizational theories assuming that the majority of organizations can be characterized using two dimensions. Each dimension represents alternative approaches to the basics, and all organizations must solve them to be able to operate (Denison and Spreitzer 1991). The two basic dimensions of the model are flexibility *vs.* control and internal *vs.* external focus. Four types of cultures have been created using their combination: clan culture, adhocratic, hierarchical, and market (Cameron and Quinn 2006). The clan corporate culture corresponds to alternative A. Enterprises carrying this type of corporate culture employed team thinking, employee development programs in their management, and they focused on creating a friendly work environment. The adhocratic corporate culture is another type of

corporate culture corresponding with alternative B. This corporate culture supports the creation of work teams for the purpose of solving some specific goal or a task. The market corporate culture is the third type of corporate culture, which corresponds to alternative C. Its operation is based on market mechanisms. For alternative C the final results, competitiveness, and productivity are the deciding goals. Hierarchical corporate culture (alternative D) is the last type. It is characterized by a formalized and structuralized work environment, which emphasizes procedures and regulations. Formal rules are the binding element. Leading employees are good coordinators and organizers. Smooth organization operation, its stability, and efficiency were the decisive factors.

The type of corporate culture was determined by six components (Dominant Characteristics, Organizational Leadership, Management of Employees, Organization Glue, Strategic Emphases, and Criteria of Success). Each of the six components presented in Table 2 was examined on the four alternatives (Cameron *et al.* 2006).

Table 2. The Organizational Culture Assessment Instrument Questionnaire Methodology

	1. Dominant Characteristics
Alternative A	The organization is a very personal place. It is like an extended family. People
Alternative A	seem to share a lot of personal information and features.
Alternative B	The organization is a very dynamic entrepreneurial place. People are willing to stick their necks out and take risks.
Alternative C	The organization is very results-oriented. A major concern is getting the job done. People are very competitive and achievement-oriented.
Alternative D	The organization is a very controlled and structured place. Formal procedures generally govern what people do.
	2. Organizational Leadership
Alternative A	The leadership in the organization is generally considered to exemplify mentoring, facilitating, or nurturing.
Alternative B	The leadership in the organization is generally considered to exemplify entrepreneurship, innovation, or risk taking.
Alternative C	The leadership in the organization is generally considered to exemplify a no- nonsense, aggressive, or results-oriented focus.
Alternative D	The leadership in the organization is generally considered to exemplify coordinating, organizing, or smooth-running efficiency.
	3. Management of Employees
Alternative A	The management style in the organization is characterized by teamwork, consensus, and participation.
Alternative B	The management style in the organization is characterized by individual risk taking, innovation, freedom, and uniqueness.
Alternative C	The management style in the organization is characterized by hard-driving competitiveness, high demands, and achievement.
Alternative D	The management style in the organization is characterized by security of employment, conformity, predictability, and stability in relationships.
	4. Organization Glue
Alternative A	The glue that holds the organization together is loyalty and mutual trust. Commitment to this organization runs high.
Alternative B	The glue that holds the organization together is commitment to innovation and development. There is an emphasis on being on the cutting edge.
Alternative C	The glue that holds the organization together is an emphasis on achievement and goal accomplishment.
Alternative D	The glue that holds the organization together is formal rules and policies. Maintaining a smooth-running organization is important.

	5. Strategic Emphases
Alternative A	The organization emphasizes human development. High trust, openness, and participation persist.
Alternative B	The organization emphasizes acquiring new resources and creating new challenges. Trying new things and prospecting for opportunities are valued.
Alternative C	The organization emphasizes competitive actions and achievement. Hitting stretch targets and winning in the marketplace are dominant.
Alternative D	The organization emphasizes permanence and stability. Efficiency, control, and smooth operations are important.
	6. Criteria of Success
Alternative A	The organization defines success on the basis of development of human resources, teamwork, employee commitment, and concern for people.
Alternative B	The organization defines success on the basis of having the most unique or newest products. It is a product leader and innovator.
Alternative C	The organization defines success on the basis of winning in the marketplace and outpacing the competition. Competitive market leadership is a key.
Alternative D	The organization defines success on the basis of efficiency. Dependable delivery, smooth scheduling, and low-cost production are critical.

Source: Cameron et al. 2006

The questionnaire was completed by the respondents by their dividing 100 points based on the type of corporate culture they prefer. According to the OCAI methodology, it was possible to determine the type of corporate culture by averaging individual scores. The results were evaluated using the Statistica 12.0 software (Dell, Oklahoma City, OK, USA). Basic sample sets were described using descriptive statistics and variance analysis. Location as a feature with other values concentrated around were used to achieve explicit mutual comparison of statistical sample sets (wood-processing and forest enterprises) was used. The location was measured using the arithmetic mean. Variability characteristics determining the difference in the values of the statistical set were used as well. They are an important factor in the case of comparing the sets with the characteristics of location identical. Variability was measured using the standard deviation. Dispersion analysis (ANOVA) was another statistical method used. It is a parametric statistical method created to compare the groups, more than two, mutually. Sources of variance of linear statistical methods are analyzed using ANOVA. It is based on dividing the total variance of the population. In the practice, factors affecting the behavior of specific mathematical quantity can be defined or detailed comparison of populations can be carried out this way. The Ttest was also used in the research. It is used to test hypotheses to define the differences in collected data of two analyzed sample sets. The probability to achieve the value of the test statistics higher or equal to the real value when the null hypothesis is accepted is expressed by the p-value. Following the p-value which is the lowest level of significance, the null hypothesis can be rejected. In the case of our research, the value of test criterion was 0.05. Using the t-test, the hypotheses were verified:

WH1: It is supposed that there are statistically significant differences in individual components of corporate culture between wood-processing and forest enterprises.

WH2: It is supposed that there are statistically significant differences in a type of corporate culture between wood-processing and forest enterprises.

RESULTS AND DISCUSSIONS

The area of dominant characteristics was the first examined area. The measured average values of individual alternatives are presented in Table 3 and Fig. 1. Following the results, it was indicated that the alternative A achieved the highest average values in wood-processing ($\bar{X} = 35.250$) and forest ($\bar{X} = 32.44$) enterprises. Alternative A was preferred by the employees working in both types of enterprises. Managers must be focused on creating a very personal environment. The working environment should resemble a large family, where people are often in mutual contact and they have a lot in common.

Table 3. Comparison of Dominant Characteristics in Wood-processing Enterprises and Forest Enterprises

Indicator	Average		Standard Deviation			Degree	p-
	WPE	FE	WPE	FE	t-test	of Freedom	value
Alternative A	35.250	32.444	25.434	24.130	1.313	779.000	0.189
Alternative B	19.333	14.694	16.310	14.015	3.745	337.118	0.000
Alternative C	27.068	23.161	23.087	19.822	2.230	337.376	0.026
Alternative D	18.349	29.700	17.165	27.810	-5.188	221.316	0.000

Note: Significant differences are in bold; p-value < 0.05

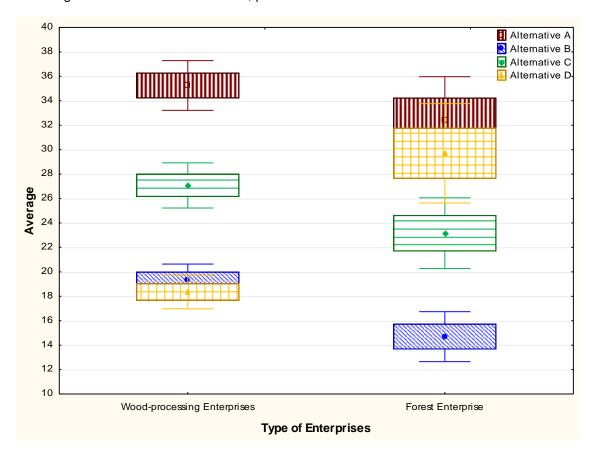


Fig. 1. Comparison of dominant characteristics in wood-processing enterprises and forest enterprises

The achieved results were confirmed also by the p-value (p = 0.189), according to which in alternative A there were no significant differences in the perception of preferred level of dominant characteristics for both groups of employees.

The results presented in Table 4 and Fig. 2 indicate that in the perception of organizational leadership, both groups of respondents assigned higher values to alternative D.

Table 4. Comparison of Organizational Leadership in Wood-processing Enterprises and Forest Enterprises

	Average		Standard Deviation			Degree	p-
Indicator	WPE	FE	WPE	FE	t-test	of Freedom	value
Alternative A	28.561	21.611	24.287	18.586	4.081	379.316	0.000
Alternative B	27.913	26.639	22.529	20.847	0.677	779.000	0.499
Alternative C	14.805	13.694	15.536	15.294	0.845	779.000	0.399
Alternative D	28.720	38.056	23.856	21.794	-4.696	779.000	0.000

Note: Significant differences are in bold; p-value < 0.05

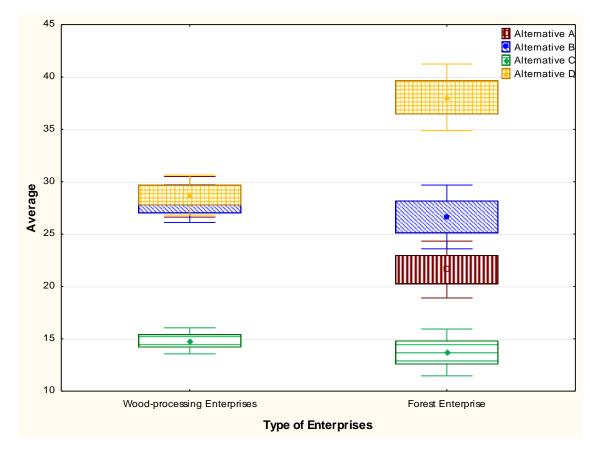


Fig. 2. Comparison of organizational leadership in wood-processing enterprises and forest enterprises

Leadership in wood-processing enterprises and forest enterprises should be considered a demonstration of cooperative, organized, and smooth operating performance.

Despite this, the presence of significant differences in alternative D among the opinions of the respondents (p = 0.000) was confirmed by the t-test. Hypothesis WH1 was confirmed.

Next, the object of examination was management of employees. The highest average score achieved by alternative A is presented in Table 5 and Fig. 3. Teamwork and cooperation should be a key factor in managing employees. Significant differences in the opinions of respondents in this alternative (p = 0.314) was not confirmed by the t-test.

Table 5. Comparison of Management of Employees in Wood-processing Enterprises and Forest Enterprises

Indicator	Average		Standard Deviation			Degree	p-
	WPE	FE	WPE	FE	t-test	of Freedom	value
Alternative A	38.717	40.694	26.307	22.051	-1.007	345.411	0.314
Alternative B	19.950	15.139	18.915	13.406	3.811	412.338	0.000
Alternative C	14.744	12.694	16.168	15.045	1.515	779.000	0.130
Alternative D	26.589	31.472	21.617	16.660	-3.206	376.463	0.001

Note: Significant differences are in bold; p-value < 0.05

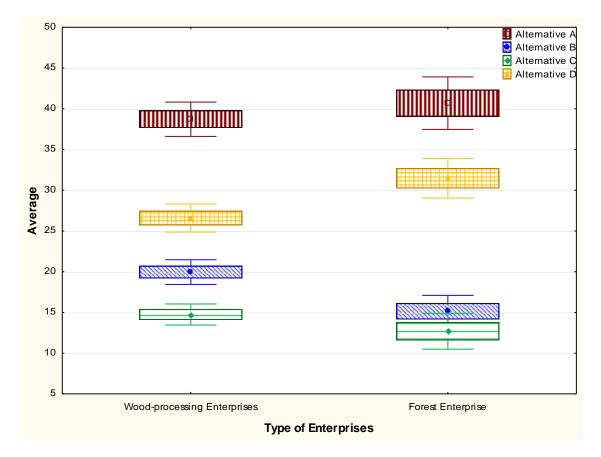


Fig. 3. Comparison of management of employees in wood-processing enterprises and forest enterprises

The results in Table 6 and Fig. 4 on the field of organization glue show that the employees of wood-processing (X = 34.303) and forest enterprises (X = 32.278) agreed

with each other. The highest average score to alternative A was assigned. Loyalty, mutual trust, and high devotion to the enterprise should be the biggest glue of the enterprise. The presence of statistically significant differences in the opinions of employees of wood-processing and forest enterprises in this alternative (p = 0.259) was not supported by statistical testing.

Table 6. Comparison of Organization Glue in Wood-processing Enterprises and Forest Enterprises

Indicator	Average		Standard Deviation			Degree	p-
	WPE	FE	WPE	FE	t-test	of Freedom	value
Alternative A	34.303	32.278	25.401	19.586	1.131	376.283	0.259
Alternative B	22.364	20.172	19.155	16.238	1.522	341.594	0.129
Alternative C	21.351	26.000	18.997	17.372	-2.936	779.000	0.003
Alternative D	21.982	21.550	19.880	18.442	0.260	779.000	0.795

Note: Significant differences are in bold; p-value < 0.05

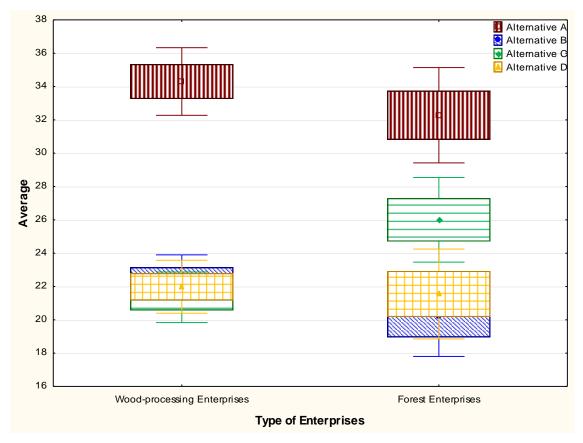


Fig. 4. Comparison of organization glue in wood-processing enterprises and forest enterprises

There was a mutual consensus in the examination of strategic emphases. Alternative A as the most preferred cooperate culture among the employees of wood-processing (X = 31.323) and forest (X = 33.278) enterprises is shown in Table 7 and Fig. 5. The strategies of the enterprises should be focused on human development, high level of

trust, openness, and retention of employees. In the preferred alternative, there were no statistically significant differences in the opinions of the respondents (p = 0.265).

Table 7. Comparison of Strategic Emphases in Wood-processing Enterprises and Forest Enterprises

	Average		Standard Deviation			Degree	p-
Indicator	WPE	FE	WPE	FE	t-test	of Freedom	value
Alternative A	31.323	33.278	22.867	19.862	-1.117	333.636	0.265
Alternative B	23.251	21.694	17.639	17.458	1.041	779.000	0.298
Alternative C	24.487	20.861	19.958	14.835	2.640	391.372	0.009
Alternative D	20.939	24.167	18.801	22.100	-1.776	261.347	0.077

Note: Significant differences are in bold; p-value < 0.05

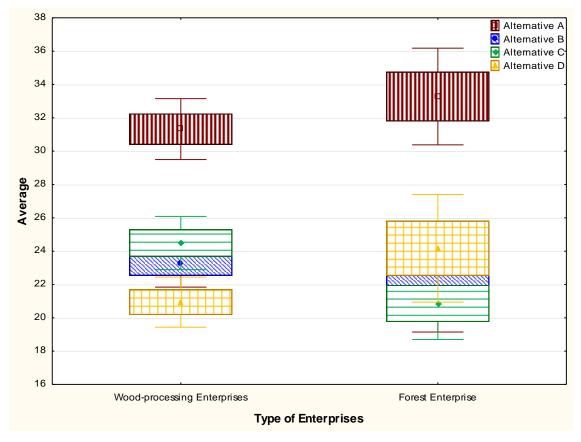


Fig. 5. Comparison of strategic emphases in wood-processing enterprises and forest enterprises

The last examined area was the area of criteria of success. The results are shown in Table 8 and Fig. 6. The employees of wood-processing enterprises considered alternative A to be the dominant (X = 31.966). The success of wood-processing enterprises should be built on the development of human resources, teamwork, employment agreement, and interest in people. Compared to the employees of forest enterprises, there were no statistically significant differences in the opinions of the respondents (p = 0.383). The employees of the forest enterprises considered the alternative D to be the most important (X = 34.333). For employees of the wood-processing enterprises, this was the second most

important alternative. The success of forest enterprises should be built on the performance, reliability of the deliveries, mastering logistics, and low-cost production. In alternative D, the existence of significant differences in the opinions of the respondents (p = 0.000) was demonstrated by the t-test. Hypothesis WH1 was confirmed.

Table 8. Comparison of Criteria of Success in Wood-processing Enterprises and Forest Enterprises

	Average		Standard Deviation			Degree	p-
Indicator	WPE	FE	WPE	FE	t-test	of	value
	VVI L	-	VVI L	. –		Freedom	varae
Alternative A	31.966	30.500	23.527	18.491	0.873	368.780	0.383
Alternative B	21.362	15.778	19.223	14.956	4.097	372.721	0.000
Alternative C	19.569	19.389	17.540	19.935	0.109	267.348	0.913
Alternative D	27.103	34.333	22.740	22.642	-3.746	779.000	0.000

Note: Significant differences are in bold; p-value < 0.05

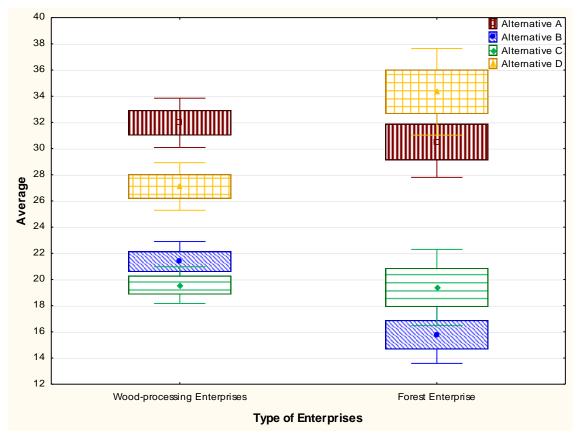


Fig. 6. Comparison of criteria of success in wood-processing enterprises and forest enterprises

In terms of the methodology of Cameron and Quinn (2006), the type of corporate culture was defined by averaging the individual scores. The results are shown in Table 9 and Fig. 7. The employees of wood-processing (X = 33.353) and forest (X = 31.801) enterprises were in agreement. They preferred to use the clan corporate culture in enterprises. Managers should focus on creating a very pleasant workplace, where people share a lot of personal information like a large family. The leaders of the organization

should be considered to be mentors and parents. The organization should be united through loyalty and tradition. Teamwork and cooperation should be typical. In testing the clan corporate culture, the presence of statistically significant differences in the opinions of the respondents (p = 0.043) was not supported by the t-test. Hypothesis WH2 was not confirmed.

Table 9. Comparison of Corporate Culture in Wood-processing Enterprises and Forest Enterprises

	Average		Standard Deviation			Degree	
Corporate Culture	WPE	FE	WPE	FE	t-test	of	p-value
	VVFL	1 L				Freedom	
Clan Culture	33.353	31.801	24.859	21.252	2.022	2041.874	0.043
Adhocracy Culture	22.362	19.019	19.251	16.864	5.525	1994.600	0.000
Market Culture	20.337	19.300	19.260	17.803	1.648	1898.270	0.100
Hierarchy Culture	23.947	29.880	21.123	22.529	-7.699	1686.995	0.000

Note: Significant differences are in bold; p-value < 0.05

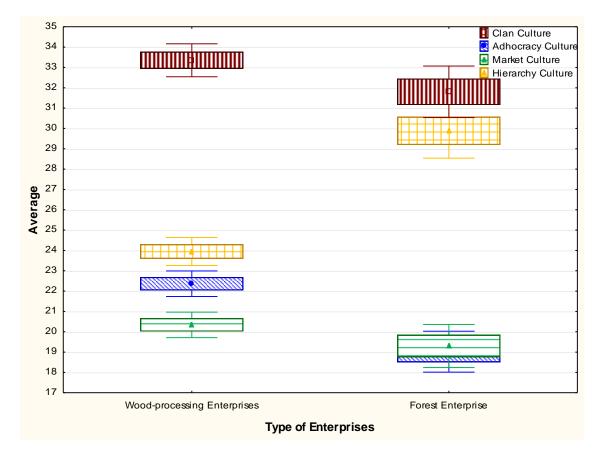


Fig. 7. Comparison of corporate culture in wood-processing enterprises and forest enterprises

The comparable survey introduced in the OCAI methodology was conducted in 236 medium and large enterprises in the Slovak Republic. The research results showed that for the most part, a hierarchical corporate structure dominated in 37.29% of enterprises, which was typically shown by its centralized observance of rules, regulations, norms, principles,

and procedures, which causes severe bureaucracy (Schimmoeller 2010; Vetraková and Smerek 2015). The implementation of hierarchical corporate culture has a negative impact on the enterprise at the time of introducing the changes to the organization, because these organizations react efficiently and effectively only to known situations and they have a problem dealing with change. In this context, the wood-processing and forest enterprises involved in this research could be evaluated positively, because the clan culture is dominating in these enterprises. The results of this presented research showed that the enterprises were still inward-oriented, but the clan culture supported necessary flexibility for sustaining competitiveness in today's turbulent business environment. The clan culture also supported changes in how people think, and it provided greater space for the development of human resources and cooperation. Clan corporate culture is considered the best type of corporate culture in wood-processing and forest enterprise because it is focused on the development of each person. Great attention should be paid to coherence, morale, and the working environment. Success should be measured in relation to the internal environment and care for the employees because employees represent a strategic tool in the management of many companies.

The results of the current research have also confirmed the hypothesis that there were significant differences between the wood-processing and the forest enterprises in individual components of corporate culture, which were identified in the previous research as the differences in opinions, values, convictions, attitudes, preferences, or goals of individual generations (Santos and Cox 2000; Bauerlein 2009; Hershatter and Epstein 2010; Ng and Schweitzer 2010; McCready 2011; De Waal et al. 2017). All typologies of corporate culture, just like the OCAI questionnaire methodology used by this research, have a complicated content of social reality of the organization and they facilitate the understanding of major characteristics, which create differences between the organizations. Although a number of them were created over the past decades, given the complexity and multidimensional nature of the examined phenomenon, none of them were and cannot be an exhaustive typology; however, each of them offered certain aspects of corporate culture understood in a certain context. In the current case, the context was dimensions of flexibility vs. control and internal vs. external focus according to the model of Cameron and Quinn (2006). It is important to keep in mind the other sides of typologies, i.e. their bottlenecks and limitations, which is the fact that each typology is a simplification of reality, because any organization cannot be simply assigned to a certain type, because for the most part they contain clear features of several cultures (Lukášová and Nový 2004). Under some circumstance, the corporate culture can be weak and diffusive. In this case, it is probably impossible to identify the content based on the typologies (Lukášová and Nový 2004). Lastly, it is necessary to add to the generally valid limitations the limiting circumstance of typology, because all listed typologies were developed in different cultural and market environments to that of the Slovak Republic (Stacho and Stachova 2015). The authors agreed with some experts who see the reasons for the current state of corporate culture as the following: the major effect on natural culture, traditions, and customs transformed in the behavior of managers and employees (87.5%); in the historic development of the economic, social, and political environment in Slovakia (75%); and in the dominating sector orientation of the Slovak enterprises (75%) (Vetraková and Smerek 2015). Enterprises processing wood and wood material in Slovakia are specific when compared to other industry areas in Slovakia. In terms of economic figures, the position of forest industry has been difficult for a long time (Hajdúchová et al. 2016). In brick and mortar enterprises, the employees have the possibility of horizontal-vertical-side career growth. In contrast, for the enterprises with a fixed structure (manager – white-collar worker – blue-collar worker, which wood-processing enterprises are not), it is difficult to change jobs for the employees due to the level of education. During their employment, the employees of these enterprises work the same job long-term. They do not have the possibility of career growth, and therefore they come to terms with the idea that they will do this monotonous work for their entire life. Because they have to come to terms with this, they accept the clan corporate culture long-term as the most suitable type of corporate culture for them (Deal 2007).

Further continuation of research is possible through more detailed analyses of the corporate culture based on the selected socio-demographic factors (gender, education, and age) as well as the perspective of change of corporate culture over time.

CONCLUSIONS

- 1. There were no significant differences in the type of corporate culture. Both analyzed groups of employees (wood-processing enterprises and forest enterprises) preferred clan corporate culture. The employees of these enterprises were working the same job long-term. They did not have the possibility of career growth and they had to come to terms with their jobs. For this reason, they accepted the clan corporate culture as the most suitable type of corporate culture. Managers are expected to create and build the clan corporate culture that is considered the best type of corporate culture for wood-processing and forest enterprise as it is focused on the development of each person. Great attention should be paid to coherence. Success should be measured in relation to the care for the employees, useful for improving the performance and enterprise productivity.
- 2. Statistically significant differences in the opinions of respondents were discovered in the area of organizational leadership, despite the fact that both groups of respondents considered Organizational Leadership as a demonstration of cooperative, organized, and smooth operating performance.
- 3. Other significant differences were recognized in the area of criteria of success. The employees in wood-processing enterprises preferred the success to be based on the development of human resources, teamwork, employee agreement, and interest in people. The success of forest enterprises should be based on performance, reliability of deliveries, mastering logistics, and low-cost production.
- 4. No differences were displayed in the areas of dominant characteristics, management of employees, organization glue, and strategic emphases. Wood-processing enterprises and forest enterprises should apply teamwork and cooperation in management. The enterprises should resemble the large family with mutual contacts and have a lot in common. Enterprise strategies should focus on employees' development, trust, openness and employees' loyalty.

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