

# Motivational Preferences of Employees in Requirements of Czech and Russian Transport and Logistics Enterprises

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## Summary

The aim of the paper is to identify the employees' groups based on the differences in their motivation preferences in the environment of transport and logistics enterprises in selected regions. Loyal, satisfied and efficient employees are a key success factor for service enterprises in general. This is due to the fact that service sphere is characterized by the low level of anonymity of the service provider, therefore the level of professional approach of employees in direct interaction becomes the most important in terms of customer satisfaction. The paper represents partial result of research aimed at the identification of motivational preferences of employees in the specific conditions of logistics enterprises. The research was carried out in the Czech Republic and Russian Federation (Sverdlovsk region) in 2017 and the research sample consisted of 571 and 860 respondents employed in transport and logistics enterprises. There is a proposed use of Cluster analysis method in the paper. The research results obtained can help better understand the motivational preferences of the transport and logistics staff and thus create the possibility of more efficient formulation of incentive programs.

## KEY WORDS

motivation  
motivational factors  
transport and logistics enterprises  
transport and logistics  
cluster analyses

## 1. INTRODUCTION

The dominant attribute of current logistics is the increase in the number and quality of links of the sub-links of the logistics chain [1], [2] on a global scale. As in other economy sectors, transport and logistics are dominated by the supply above the demand [3]. Enterprises increasingly look for new ways and means to enable them to succeed in a very competitive environment [4], [5]. This fact forces business entities to use not only innovative technologies but also to seek quality human resources [6], [7]. Because of globalization, there is an increasing expansion of the consumer market [8], [9] and consequently the expansion of the transport market. The need to bridge larger distances in the shortest possible time becomes the main requirement and criterion for customers, mainly due to the increased volume of product exports and mobility of persons [10-12]. The pressure is also put not only on the relocation of goods in precisely defined quantities and dates, at affordable prices and with minimal ecological burden on the environment, but also on adaptation to the specific individual needs of customers [13], [14]. The very strong qualitative personnel background [15] of the enterprises will help differentiate themselves from the competition by providing quality and fast transport and logistics services [16]. The specific nature of transport and logistics services has a direct impact on the assessment of the quality of work carried out by individual workers and on the possibility of assessing the quality of services by the consumer.

From the marketing point of view, there is a dominant demand for service provider flexibility at all levels of management, as well as

at the level of employees who are directly involved in the service delivery process and come into direct contact with the customer [17-19]. Customer expectations and demands on the quality of work, and the level of professional approach to direct interaction from the point of view of customer satisfaction become crucial due to the low degree of anonymity of the service provider.

Many enterprises have a problem with a lack of quality human resources [20-23] and are looking for ways to solve this deficit. Another issue is how to maintain and motivate a quality workforce that has proven itself and is professionally trained [23-25]. The answer is to find out how these workers have preferences and needs in the work relationship and what motivates them to perform better and what demotivates them.

## 2. MATERIAL AND METHODS

The aim of the paper is to identify the employees' groups based on the differences in their motivation preferences in the environment of transport and logistics enterprises in selected regions. The paper represents partial result of research aimed at the identification of motivational preferences of employees in the specific conditions of logistics enterprises. The research was carried out in the Czech Republic and Russian Federation (Sverdlovsk region) in 2017 and the research sample consisted of 571 (Czech) and 860 (Russian) respondents of transport and logistics enterprises. The respondents were chosen by a random choice method among the employees of transporting and

logistic companies from both countries. The characteristics of respondents are in Table 1.

The research was conducted by means of an electronic questionnaire distributed among respondents. Within this research, respondents evaluated their preferences of 30 motivational factors on the Likert scale. The scales had a form of statements and respondents had the opportunity to express themselves in the range of five points: 1 meant unimportant, 2 - slightly important, 3 - neutral, 4 - important, 5 - very important. Data were processed with the help of the SPSS [26] and their usefulness was tested by the Mann-Whitney U-test. K-Means Cluster Analysis was applied, as the procedure attempts to identify relatively homogeneous groups of cases based on selected characteristics, using an algorithm that can handle large number of cases [27].

Table 1 Characteristics of the respondents

		Czech Republic	Russian Federation
		Number of respondents	Number of respondents
Gender	Male	240	379
	Female	331	481
Age	less than 30 years	186	352
	31-40 years	151	175
	41-50 years	129	238
	over 50 years	105	100
Total		571	860

Source: authors

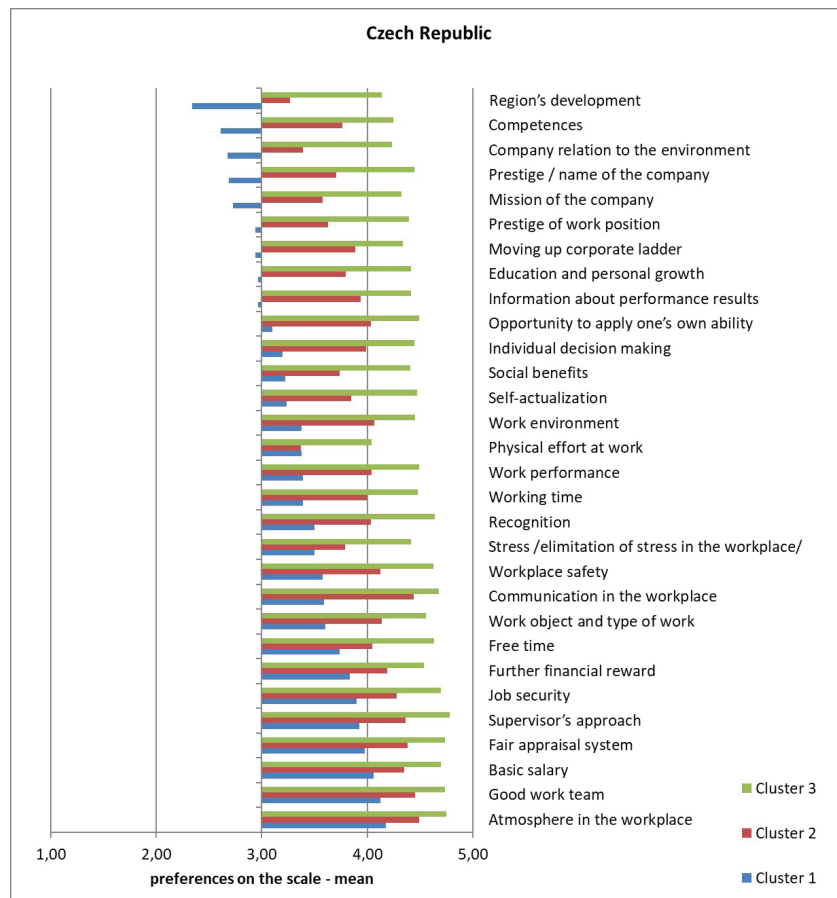
### 3. RESULTS AND DISCUSSIONS

The respondents' attitudes towards the above motivational factors are based on expressing their preferences on Linkert scale. Respondents of both regions reacted to these statements using an assessment scale of five levels. Using cluster method (k-means) the employee clusters were set up for Czech Republic and Sverdlovsk regions. These clusters will be introduced in a more detail below. Table 2 shows numbers of cases in these clusters.

Table 2 Frequencies of Czech and Russian clusters of employees in requirements of transport and logistics enterprises

Czech Republic			
		Number of Cases in each Cluster	%
Cluster	1	82.0	14.4
	2	235.0	41.1
	3	254.0	44.5
Valid		571.0	100.0
Missing		0.0	
Russian Federation - Sverdlovsk region			
		Number of Cases in each Cluster	%
Cluster	1	21.0	2.5
	2	346.0	40.2
	3	493.0	57.3
Valid		860.0	100.0
Missing		0.0	

Source: authors



Source: authors

Figure 1 Motivational preferences of Czech cluster members

Evaluating the preferences of the respondents, three clusters, whose members are from Czech transport and logistics enterprises – Czech Clusters 1, 2, and 3, were identified. On the other side, members belonging to Russian Clusters 1, 2, and 3 are employees of Sverdlovsk transport and logistics enterprises. Figure 1 shows the motivational preferences of employees from Czech Republic and Figure 2 from Russian Federation in Sverdlovsk region. The x axis shows the final centres of clusters of the assessment of the importance of the motivation factor, where 1 is meaningless and 5 very important.

### 3.1. Czech Cluster 1 – Flexible and less demanding

This cluster represents the smallest group of employees, accounting for 14.4%. Members of this cluster are relatively young employees with primary and lower secondary education. They hold mainly positions of blue-collar workers (49%) and white-collar workers (30%). Women represent 52% of this cluster, with the most disparate age category being women under 30 (46% of women and 27% of the total), and the lowest category is men over 50 (only 5%). These employees with a work experience of up to 3 years are represented by 52%.

This cluster is a less demanding group of employees, which does not require such a high level of motivational factors to be fulfilled as in other clusters. They consider important the work atmosphere and workplace collaboration within the team, but they are not as demanding as in the other two groups of employees of Czech Transport and Logistics Enterprises. Nonetheless, they rank the financial rankings at 3 in a row. This implies that they are able to adapt more flexibly to working time, labour conditions, work safety deficiencies under conditions of higher financial income. These employees need a serious approach to the superior, a fair job evaluation and job security. Career practices, the prestige of the employer and the prestige of the job are not very important to them (Table 3 and Figure 1).

### 3.2. Czech Cluster 2 - Social interrelationships

It represents 41.1% of employees. This is a gender-balanced group of employees (53% of men) and 60% of these employees

are less than 40 years old. From the point of view of the educational structure, they are represented in all categories. These employees have a comparable share of managerial positions (35%) and white-collar workers (34%) and blue-collar workers. 45% of women work in the positions of white-collar workers and 34% in post managers.

For this group of employees, the salary is 6th in the rankings (Table 3 and Figure 1). As with the Cluster 1, the atmosphere and workplace relationships are the prime factor for them. Their emphasis on social relations is underlined by the preference of adequate communication and of a serious attitude and approach by superiors. This group is more professionally oriented, they prefer the type and content of work and the actual work performance before career motivational factors.

### 3.3. Czech Cluster 3 - Demanding

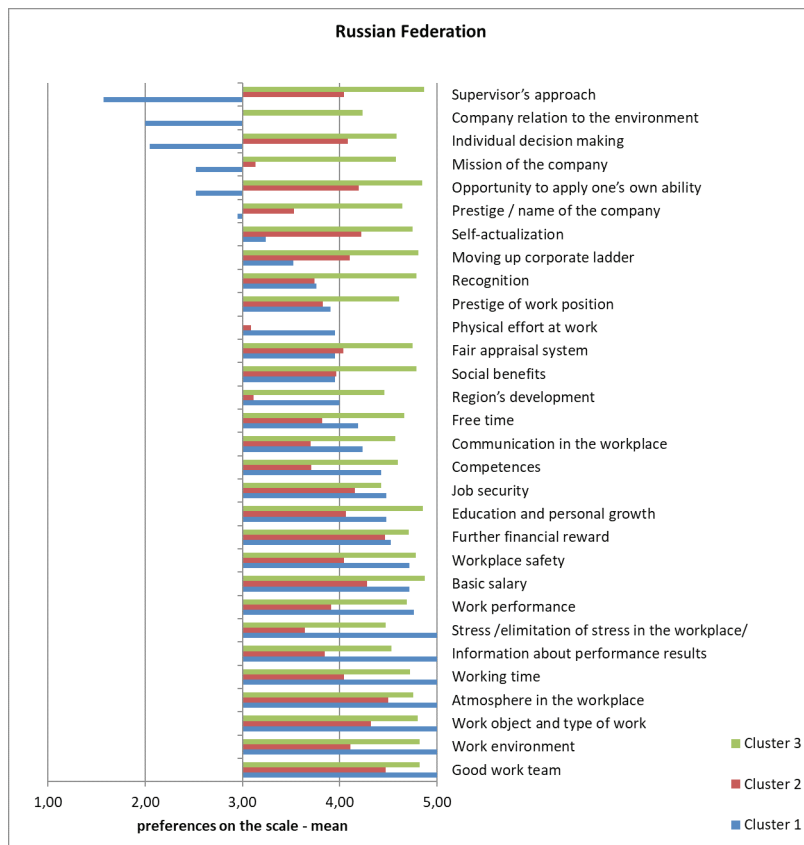
This group is represented by 44.5% of employees. It is a gender-balanced group of employees (53% of women) with men falling without significant age restrictions and women mostly under the age of 40 (59% of women). 77% of women have higher secondary education (47%) and higher education (30%) and 56% men are upper secondary educated. These practitioners have the most extensive length of practice of up to 1-3 years and over 10 years. 70% of employees work as managers (36%) and white-collar workers (34%).

Employees belonging to the 3rd group place emphasis first on a direct leader and subsequently on relationships at the workplace (Table 3 and Figure 1). Job security and consequently the salary rating are also very important to them. In this group, however, the preferences of the individual factors are balanced, and this is a more demanding group of employees who have higher demands in terms of the required level of the motivators. Their preference favours job security and enough free time for career advancement and prestige. It is a group of employees who want to rationalize their work and free time so that the earned money serves to enjoy life.

Table 3 Motivational factor preference in the Czech Republic by cluster

Cluster 1		Preference motivational factors of Czech clusters			
		Cluster 2		Cluster 3	
Atmosphere in the workplace	4.18	Atmosphere in the workplace	4.49	Supervisor's approach	4.77
Good work team	4.13	Good work team	4.45	Atmosphere in the workplace	4.75
Basic salary	4.06	Communication in the workplace	4.43	Good work team	4.74
Fair appraisal system	3.98	Fair appraisal system	4.38	Fair appraisal system	4.73
Supervisor's approach	3.93	Supervisor's approach	4.36	Job security	4.70
Job security	3.90	Basic salary	4.34	Basic salary	4.69
Further financial reward	3.83	Job security	3.90	Communication in the workplace	3.58
Free time	3.73	Further financial reward	3.83	Recognition	3.5
Work object and type of work	3.60	Work object and type of work	3.6	Free time	3.73
Communication in the workplace	3.58	Workplace safety	3.57	Workplace safety	3.57

Source: authors



Source: authors

Figure 1 Motivational preferences of Russian cluster members

Table 3 Motivational factor preference in the Sverdlovsk region by cluster

Preference motivational factors of Russian clusters					
Cluster 1 (2.5%)		Cluster 2 (40.2%)		Cluster 3 (57.%)	
Stress /elimination of stress in the workplace/	5.00	Atmosphere in the workplace	4.50	Basic salary	4.87
Working time	5.00	Good work team	4.47	Supervisor's approach	4.87
Work environment	5.00	Further financial reward	4.47	Education and personal growth	4.86
Good work team	5.00	Work object and type of work	4.32	Opportunity to apply one's own ability	4.85
Work object and type of work	5.00	Basic salary	4.28	Work environment	4.82
Information about performance results	5.00	Self-actualization	4.22	Good work team	4.82
Atmosphere in the workplace	5.00	Opportunity to apply one's own ability	4.19	Moving up corporate ladder	4.81
Work performance	4.76	Job security	4.16	Work object and type of work	4.81
Basic salary	4.71	Work environment	4.11	Social benefits	4.79
Workplace safety	4.71	Moving up corporate ladder	4.10	Recognition	4.79

Source: authors

### 3.4. Russian Cluster 1 – Bohemians

This is the smallest group within the clusters - 2.5%, which is gender balanced. Employees are mostly of the age of 41 to 50, mainly with university education (length of practice is over 10 years). Members of the cluster work on the managerial positions - 31% and white-collar workers - 54%.

This group of workers is particularly demanding in terms and background in the performance of work. They rely on their expertise and focus. Highly evaluate the psychological impact of work on their lives - the level of stress, work atmosphere and work team and leisure. Since it is a group of workers who are

aware of their qualities and expertise, it is assumed that their financial rating is at a relatively high level, so their motivator core salary is up to the 9th place. Career motivational factors and supervisor's approach are the expense of working conditions and the type, difficulty and certainty of work suppressing to a lower level.

### 3.5. Russian Cluster 2 – Balancing Realists

This cluster has a 40.2% share of employees. Together 64% of men age-matched in all categories, predominant secondary education of both categories, practice under 6 years 63% and

30.2% over 10 years. These employees work mostly in positions 29.8% are managers and 43% are blue-collar workers.

This is a group of employees who prefer a social motivation factors (atmosphere and team), but also considers financial valuation and expertise as very important. Career prospects and self-realization are important for this group. These employees have lower levels of motivational factors compared to other Russian figures. Preference for salary levels after basic social motivators - workplace atmosphere and teamwork.

### 3.6. Russian Cluster 3 - Educated Young Careerists

This group of employees is represented by 57.3% and is made up of 60% of women. Women predominantly of the younger age range are 39% under 30, university and higher secondary education. They work in positions of managers (37%) and white-collar workers (39%).

This group puts the financial valuation first and focuses its attention on the career factors as an application of their own capabilities, further education and career advancement. Self-realization and the possibility of personal growth (education) are important to them. In addition to their expertise, attention is paid to the work environment and good teamwork.

## 4. CONCLUSION

The aim of the paper is to identify the employees' groups based on the differences in their motivation preferences in the environment of transport and logistics companies and their comparison in the selected regions. Based on the cluster analysis, three basic groups of participants were determined for the group of employees of transport and logistics companies according to their preferences for motivation factors. These groups are more closely characterized, and based on the comparison between the two countries, it is possible to state that in Russia employees place more emphasis on the career factors than the Czech ones. For both countries, a group is determined for which the amount of the financial evaluation is higher than that of other members of the labour market, as well as employees who focus mainly on social background and job security. Very important is the fact that Czech employees are also aware of the importance of free time. For the most demanding Russian group, leisure is also the important factor. In the case of Russian groups, it can be said that they have higher career preferences for motivation factors than the cluster in the Czech Republic. Knowing employee preferences is key not only to meet their needs but also to the targeted and rationally set incentive system where less costly measures can be used that will have a higher end-result in the form of satisfied, efficient and loyal employees.

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