

O PAPEL DAS HABILIDADES DE LÍNGUA ESTRANGEIRA NO DESENVOLVIMENTO REGIONAL INTEGRADO

EL PAPEL DE LAS HABILIDADES EN LENGUA EXTRANJERA EN EL DESARROLLO REGIONAL INTEGRADO

THE ROLE OF FOREIGN LANGUAGE SKILLS IN THE INTEGRATED REGIONAL DEVELOPMENT

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RESUMO: *Garantir o desenvolvimento territorial sustentável é uma das tarefas essenciais para o desenvolvimento das indústrias regionais e para o aumento do nível de segurança alimentar das regiões e do país em geral. A solução do problema de desenvolvimento e implementação de um mecanismo competitivo de desenvolvimento territorial deve basear-se nos princípios e métodos do moderno planejamento estratégico territorial-setorial com foco no aproveitamento máximo dos recursos das potencialidades locais existentes e no domínio das línguas estrangeiras para interagir com outras pessoas. A lista de áreas prioritárias (blocos), que devem servir de base fundamental para o desenvolvimento de conceitos para o desenvolvimento integrado das regiões, deve obrigatoriamente o ensino de línguas estrangeiras, incluindo características naturais e climáticas, técnicas e tecnológicas, infraestruturais e mercadológicas. Com base nos resultados, a importância da aprendizagem de línguas estrangeiras para o desenvolvimento regional e a competitividade do turismo está fora de questão.*

PALAVRAS-CHAVE: *Aprendizagem de línguas estrangeiras, Desenvolvimento integrado, Idioma, Desenvolvimento regional.*

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RESUMEN: *Asegurar el desarrollo territorial sostenible es una de las tareas clave para el desarrollo de las industrias regionales y el aumento del nivel de seguridad alimentaria de las regiones y del país en general. La solución al problema de desarrollar e implementar un mecanismo competitivo para el desarrollo territorial debe basarse en los principios y métodos de la planificación estratégica territorial-sectorial moderna con un enfoque en el uso máximo de los recursos del potencial local existente y las habilidades de lenguas extranjeras para interactuar con los demás. La lista de áreas prioritarias (bloques), que debe servir como base fundamental para el desarrollo de conceptos para el desarrollo integral de las regiones, debe incluir la educación de lenguas extranjeras, incluyendo características naturales y climáticas, técnicas y tecnológicas, de infraestructura y de marketing. Según los resultados, la importancia del aprendizaje de lenguas extranjeras para el desarrollo regional y la competitividad del turismo está fuera de duda.*

PALABRAS CLAVE: *Aprendizaje de lenguas extranjeras, Desarrollo integrado, Lengua, Desarrollo regional.*

ABSTRACT: *Ensuring sustainable territorial development is one of the key tasks for developing regional industries and increasing the level of food security of the regions and the country in general. The solution to the problem of developing and implementing a competitive mechanism for territorial development should be based on the principles and methods of modern strategic territorial-sectorial planning with a focus on the maximum use of the resources of the existing local potential and foreign language skills to interact with others. The list of priority areas (blocks), which should serve as a fundamental basis for developing concepts for the integrated development of regions, must include foreign language education, including natural and climatic, technical and technological, infrastructural, and marketing characteristics. Based on the results, the importance of foreign language learning to regional development and tourism competitiveness is beyond question.*

KEYWORDS: *Foreign language learning, Integrated development, Language, Regional development.*

Introduction

Using the techniques of economic and mathematical modeling based on systemic and integrated approaches would be advisable to assess the possibilities of territorial development (Gavrilin, 2005; Tikhomirov, 2006). The proposed method for determining the parameters of the mechanism for managing the potential of territorial formations provides for a description of the conceptual mechanism for the implementation of the system; principles of its construction; structural elements and functionality. The implementation of the optimization problem with a fixed amount of resources makes it possible to find the best combination of industries and spheres and to assess the potential of the territory according to some criterion, i.e. build a simulation model (Belotelov, 2006). A simulation model intended for variant calculations

may lack an explicitly expressed objective function, which implies a thorough analysis of the solutions obtained for each variant of combinations of functional characteristics of the system and the choice of the most optimal one.

Modern territories are open systems whose internal stability greatly depends on the conditions of the external environment. Therefore, the model for the development of the competitive potential of territories can be classified as universal as it has such features as adaptive capabilities, the integrity of the study, comparability of indicators, the continuity of the analytical process, and multivariate.

Methods

Improvement of the mechanism and tools for managing the integrated development of the territories of the region is aimed at the formation and selection of alternative options when creating a general scheme for the development of its national economic complex. This problem, in our opinion, is key, as it determines the main vector of development and the mechanisms for its implementation. To solve this problem, we will use approaches based on the construction of multivariate regression models.

Economic phenomena, as a rule, are determined by a large number of simultaneously and cumulatively acting factors (Gazetdinov, 2003). In this regard, the dependence of the variable "Y" on several explanatory variables "X1, X2, ..., Xn" should be investigated. Multivariate (multivariate or multiple) regression allows building and testing the relationship between one resulting variable and several independent influencing factors.

Results and discussion

Multi-factor (multivariate or multiple) regression (multiple regression model) is a relationship equation with several independent explanatory variables. In general, it can be as follows:

$$Y = \beta_0 + \beta_1 \cdot X1 + \beta_2 \cdot X2 + \dots + \beta_n \cdot Xn \quad (1)$$

where $X1, X2, \dots, Xn$ are independent explanatory variables;

β_0 is a random variable, an additional residual term that reflects the influence of random errors, measurement features and actions that affect the resulting variable, other explana-

tory variables that were not included in the equation. It is also called resentment or remnant. This random component can be considered a random forecast error Y for a given value X .

Building models involves the following steps:

1. specification of the phenomena, processes, the dependence between which is subject to assessment. Formulation of hypotheses about the dependence of economic phenomena;
2. determination of the number of desired factors, classification of the variables into resulting and explanatory. In theory, the regression model allows taking into account any number of factors; in practice, this is not necessary;
3. data collection. The minimum sample size is determined;
4. formulation of a hypothesis about the form of link (linear or nonlinear, simple or multiple), i.e. model specification is carried out;
5. determination of the numerical values of the regression parameters and indicators characterizing the accuracy of the regression analysis;
6. selection of the main factors. The factors included in the model must meet the following conditions: they must be quantifiable; factors should not contain trends; factors do not have to be in precise functional relationship;
7. checking for autocorrelation;
8. verification of the significance of the determination indicator and assessment of the quality of the selection of the theoretical regression equation. The regression error, the standard error of the regression and the mean error of the approximation are estimated. If the model is inadequate, the development of the model should start again from the fourth stage;
9. comparison of the results with the hypotheses proposed at the first stage of the study, and assessment of their plausibility. Economic interpretation of the model.

Let us formulate hypotheses about the dependence of economic phenomena. Thus, three main indicators were chosen as dependent variables Y : the general rank of the technical and technological potential ($Y1$), the general rank of the investment potential of the rural areas of the region ($Y2$), and the general rank of the marketing potential of the entities in rural areas ($Y3$). As independent variables X_n , eleven indicators of the integrated regional development were selected, which characterize the key levels of competitive potential (<http://pppcntcr.ru>; <http://petrostat.gks.ru>; www.gks.ru).

As a result of processing the initial data, the matrices of the initial data were formed. Here is an example:

Table 1. Initial data matrix (general rank of technical and technological potential ($Y1$))

		Y	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11
1	Boksitogorsky	10.0	17	16	14.1	22	14	13	16	14	16	15	15
2	Volosovsky	16.0	3	13	1.1	77	12	15	15	8	13	13	12
3	Volkhovsky	13.0	10	7	11	27	10	9	12	13	4	11	6
4	Vsevolozhskii	3.0	5	1	20.6	49	1	3	2	6	9	2	1
5	Vyborgsky	5.0	8	3	39.1	35	2	5	3	3	2	5	4
6	Tosnensky	9.0	13	5	4.3	27	7	8	7	4	10	8	5

Table 2. Initial data matrix (the general rank of the investment potential of the territories of the region (Y2))

		Y	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11
1	Boksitogorsky	13	17	16	14.1	22	14	10	16	14	16	15	15
2	Volosovsky	15	3	13	1.1	77	12	16	15	8	13	13	12
3	Volkhovsky	9	10	7	11	27	10	13	12	13	4	11	6
4	Vsevolozhskii	3	5	1	20.6	49	1	3	2	6	9	2	1
5	Vyborgsky	5	8	3	39.1	35	2	5	3	3	2	5	4
6	Tosnensky	8	13	5	4.3	27	7	9	7	4	10	8	5

Table 3. Initial data matrix (the general rank of the marketing potential of economic entities in the territories of entities (Y3))

		Y	X1	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11
1	Boksitogorsky	15.0	17	16	14.1	22	14	10	13	16	14	16	15
2	Volosovsky	12.0	3	13	1.1	77	12	16	15	15	8	13	13
3	Volkhovsky	6.0	10	7	11	27	10	13	9	12	13	4	11
4	Vsevolozhskii	1.0	5	1	20.6	49	1	3	3	2	6	9	2
5	Vyborgsky	4.0	8	3	39.1	35	2	5	5	3	3	2	5
6	Tosnensky	5.0	13	5	4.3	27	7	9	8	7	4	10	8

We rely on the assumption of multiple linear link used in the model. Let us consider an example of constructing correlation matrices and assessing the statistical significance of the correlation between them.

Table 4. Correlation matrix Y1

	<i>Y</i>	<i>X1</i>	<i>X2</i>	<i>X3</i>	<i>X4</i>	<i>X5</i>	<i>X6</i>	<i>X7</i>	<i>X8</i>	<i>X9</i>	<i>X10</i>	<i>X11</i>
Y	1											
X1	0.259 804	1										
X2	0.651 961	0.230 392	1									
X3	- 0.535 95	- 0.153 82	- 0.309 54	1								
X4	0.041 147	- 0.315 27	- 0.164 59	- 0.27 844	1							
X5	0.688 725	0.384 804	0.887 255	- 0.47 138	- 0.114 75	1						
X6	0.877 451	0.134 804	0.700 98	- 0.64 078	0.084 613	0.654 412	1					
X7	0.664 216	0.463 235	0.772 059	- 0.51 461	- 0.166 91	0.889 706	0.600 49	1				
X8	0.350 49	0.068 627	0.487 745	- 0.11 213	- 0.675 74	0.392 157	0.382 353	0.428 922	1			
X9	0.340 686	0.477 941	0.296 569	- 0.60 962	0.111 851	0.473 039	0.291 667	0.617 647	0.090 686	1		
X10	0.737 745	0.333 333	0.767 157	- 0.68 77	0.132 714	0.860 294	0.806 373	0.791 667	0.264 706	0.482 843	1	
X11	0.583 333	0.333 333	0.835 784	- 0.34	- 0.329	0.850 49	0.637 255	0.838 235	0.568 627	0.465 686	0.656 863	1

It follows from the correlation matrices that the selected resulting features are influenced by all regressants; nevertheless, the degree of their influence is different. We can also note the presence of a correlation between exogenous variables, which may indicate the presence of a multicollinearity phenomenon in the model. Based on the presence of a linear relationship between endogenous and exogenous variables, it is possible to estimate the parameters of regression models using the least squares method. Let us calculate regression vectors ..of endogenous variables and random deviations. Let us build multivariate regression models:

$$Y = \beta_0 + \beta_1 \cdot X_1 + \beta_2 \cdot X_2 + \beta_3 \cdot X_3 + \beta_4 \cdot X_4 + \beta_5 \cdot X_5 + \beta_6 \cdot X_6 + \beta_7 \cdot X_7 + \beta_8 \cdot X_8 + \beta_9 \cdot X_9 + \beta_{10} \cdot X_{10} + \beta_{11} \cdot X_{11}$$

Here is an example of the results of multiple regression in numerical form:

Table 5. Results of multiple regression Y1

	<i>Coefficients</i>	<i>Standard error</i>	<i>t-test</i>	<i>P</i>	<i>Lower 95%</i>	<i>Top 95%</i>
Y intersec- tion	- 3.3855595 37	5.15930188 3	- 0.6562049 7	0.5406848 13	- 16.6479672 4	9.87684816 8
Variable X1	0.0368453 62	0.21604522 5	0.1705446 73	0.8712681 77	- 0.51851656 8	0.59220729 3
Variable X2	- 0.3048882 27	0.38194287	- 0.7982561 03	0.4609372 32	- 1.28670363	0.67692717 6
Variable X3	0.0981325 44	0.10155985 7	0.9662532 7	0.3782954 93	- 0.16293538	0.35920046 9
Variable X4	0.0030879 15	0.06945531 8	0.0444590 2	0.9662594 55	- 0.17545266 4	0.18162849 5
Variable X5	0.9786884 66	0.52319666 8	1.8705938 45	0.1203216 87	- 0.36623138 4	2.32360831 6

Variable X6	1.3670844 03	0.33262706 8	4.1099613 74	0.0092642 11	0.51203930 3	2.22212950 2
Variable X7	0.4352268 22	0.36338588 6	1.1976987 52	0.2847097 82	- 0.49888633 6	1.36933998
Variable X8	0.0587586 02	0.26317270 4	0.2232701 22	0.8321603 51	- 0.61774837 1	0.73526557 4
Variable X9	0.1495148 46	0.25472603 1	0.5869633 54	0.5827295 92	- 0.50527926 2	0.80430895 3
Variable X10	- 0.7310620 09	0.45884838 3	- 1.5932539 71	0.1719832 81	- 1.91056932 8	0.44844531 1
Variable X11	- 0.7677231 85	0.39186422	- 1.9591561 2	0.1074038 85	- 1.77504223 2	0.23959586 1

Table 6. Dispersion analysis Y1

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>F-test</i>
Regression	11	373.4173097	33.94702815	4.908095328	0.045889591
Surplus	5	34.58269031	6.916538063		
Total	16	408			

Table 7. Regression statistics Y1

Multiple R	0.956680983
R square	0.915238504
Normalized R-squared	0.728763213
Standard error	2.62993119
Observations	17

As follows from the data obtained by the least square method, the obtained multivariate regression model of the technical and technological potential Y1 will be as follows:

$$Y1 = - 3.39 + 0.04 \cdot X1 - 0.31 \cdot X2 + 0.1 \cdot X3 + 0.003 \cdot X4 + 0.98 \cdot X5 + \\ + 1.37 \cdot X6 + 0.44 \cdot X7 + 0.06 \cdot X8 + 0.15 \cdot X9 - 0.73 \cdot X10 - 0.77 \cdot X11$$

This equation expresses the dependence of the technical and technological potential Y1 on the factor signs X1 - X11. Equation coefficients show the quantitative impact of each factor on the effective indicator, while others remain unchanged.

The obtained equation allows determining the quantitative response of the resulting feature to a change in each of the factor features. The resulting model also makes it possible to rank factor signs according to the degree of their influence on the change in technical and technological potential. Thus, a ranked list of five key factors according to the degree of influence reduction is as follows:

1. X6 – the level of investment potential (1.36)
2. X5 – the level of labor potential (0.97)
3. X11 – the level of marketing potential (0.76)
4. X10 – the level of potential of consumer markets (0.73)
5. X7 – the level of organizational and managerial potential (0.43)

A multivariate regression model of the investment potential of rural areas of the region (Y2):

$$Y2 = 2.2 + 0.01 \cdot X1 + 0.25 \cdot X2 - 0.09 \cdot X3 + 0.01 \cdot X4 - 0.71 \cdot X5 + \\ + 0.56 \cdot X6 - 0.28 \cdot X7 + 0.01 \cdot X8 - 0.16 \cdot X9 + 0.55 \cdot X10 + 0.57 \cdot X11$$

Let us build a ranked list of five key factors for the investment potential of rural areas of the region (impact on the level of investment potential in decreasing order):

1. X5 – the level of labor potential (0.71)
2. X11 – the level of marketing potential (0.57)
3. X6 – the level of technical and technological potential (0.56)
4. X10 – the level of potential of consumer markets (0.55)
5. X7 – the level of organizational and managerial potential (0.28)

A multivariate regression model of the marketing potential of business entities (Y3):

$$Y3 = - 1.49 - 0.04 \cdot X1 - 0.09 \cdot X2 - 0.08 \cdot X3 - 0.03 \cdot X4 + 0.88 \cdot X5 - \\ - 0.57 \cdot X6 + 1.01 \cdot X7 + 0.4 \cdot X8 + 0.02 \cdot X9 + 0.22 \cdot X10 - 0.67 \cdot X11$$

Let us build a ranked list of five key factors for the marketing potential of business entities (impact on the level of marketing potential in decreasing order):

1. X7 – the level of investment potential (1.01)
2. X5 – the level of labor potential (0.88)
3. X10 – the level of potential of consumer markets (0.67)

4. X6 – the level of technical and technological potential (0.57)
5. X8 – the level of organizational and managerial potential (0.4)

As a result of the calculations, three basic directions were identified to increase the competitive potential of a particular territory, depending on the level of its development.

These directions (all other things being equal) are as follows:

- technical and technological;
- investment;
- marketing.

The obtained regression models distinguish factor signs according to the degree of their influence on the resulting indicator; on this basis, the ranked series of frustration (development) points were compiled, whose changes are a pressure point for the resulting trait. The ranked series made it possible to form a matrix of preferred directions of development, as well as spheres and sectors affecting the dynamics of the territories. This technique can be used for a rational choice of options for the development of regions on the basis of assessing the alternative possibilities of territories with the same set of influencing factors but their different meaning for each of them (Kuzbozhev et al., 2005).

Table 8. Matrix of preferred spheres of influence on the development of the competitive potential of rural areas

Areas of development	A ranked range of preferred spheres of influence				
	1	2	3	4	5
Technical and technological potential	Investment	Labor	Marketing	Market	Organization and management
Investment potential	Labor	Marketing	Technical and technological	Market	Organization and management
Marketing potential	Investment	Labor	Market	Technical and technological	Organization and management

The developed statistical models make it possible to use specific basic strategies for the indicated areas for the sustainable territorial development, considering the peculiarities of their current state. For example, if the development of the territory should go through increas-

ing the marketing potential, then the proposed model clearly identifies areas such as the investment base, labor resources, market infrastructure, territorial organizational and managerial factors. The priorities identified on the basis of the model will contribute to the more dynamic development of a specific territory.

The proposed technique of territorial assessment and classification according to the level of development of competitive potential makes it possible to more specifically determine the set of strategies and tactics that allow maintaining the planned dynamics. The use of the proposed strategies in conjunction with the developed statistical models and a matrix of preferred sectors for a given territory makes it possible to trace or simulate the quantitative parameters of development.

The following seems to be the most productive for territories with a declining competitive potential: strategies with a focus on cooperative collaboration; territorial (systemic) integration; local and horizontal diversification; reducing costs. At the same time, the most effective tactics within these territories will be: reorganization of enterprises; business diversification; activation of internal reserves; reduction of unprofitable assortment; all-round cost reduction.

Table 9. Implementation of the development strategies for the competitive potential of territories in the corresponding areas of the Leningrad region

Territory classification by potential level	Districts	Basic strategies	Tactics of competition
1	2	3	4

declining potential	Boksitogorsky	Cooperative strategy Territorial (system) integration strategy Local and horizontal diversification strategy Cost reduction strategy	<ul style="list-style-type: none"> - reorganization of enterprises; business diversification; - activation of internal reserves; - reduction of unprofitable products; - adjustment of pricing policy; - all-round cost reduction; - going out of business.
low potential	Volkhovsky Volosovsky	Regional market development strategy Coordination-oriented strategy Innovation strategy Cost reduction strategy Local and horizontal diversification strategy	<ul style="list-style-type: none"> - differentiation of services and their reduction in price; - maintaining market share and investment volumes for profit; - accumulation of resources from the wound down business areas to move them to promising sectors
developing potential	Tosnensky	Segregation-oriented strategy Territorial (system) integration strategy Regional market development strategy Product and service development strategy	<ul style="list-style-type: none"> - fight for niches with weak competition; - further adaptation to the selected target market; - focus on the leader and imitation of his actions; - acquisition of small competitors; <p>creating a favorable image.</p>
relatively high potential	Vyborgsky Vsevolozhsky	Leadership strategy Market share maximization strategy Innovation strategy Cost reduction strategy	<ul style="list-style-type: none"> - active attack on the market, attracting innovations to increase pressure on competitors; - maintaining market share; - maintaining the achieved level of profitability; - establishment of entry market barriers; - active struggle with competi-

			tors; attracting consumers of suppliers, discrediting competitors,
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The most preferable strategies for the low-potential territories will be the development of the territorial market; focus on coordination; introduction of innovations; and local and horizontal diversification. The set of the most effective tactics defined is as follows: differentiation of services and their reduction in price; maintaining market share and investment volumes for profit; accumulation of resources from the curtailed business areas to move them to promising sectors.

Conclusion

Territories of the region, characterized by indicators of developing competitive potential, can successfully master strategies: with a focus on isolation, territorial (system) integration; development of the range of goods and services. The most adapted tactical methods of competitive struggle in this zone can be: struggle for niches with weak competition; further adaptation to the selected target market; orientation towards the leader and imitation of his actions; absorption of small competitors, etc.

The most effective strategies for territories with a relatively high potential, will be leadership; maximization of the market share; introduction of innovations, etc. Competitive tactics supporting strategic directions are characterized by the following set of actions: active attack on the market; attraction of innovations to increase pressure on competitors; maintaining the achieved level of profitability; establishment of market entry barriers; active struggle with competitors, their discrediting.

Unlike the traditional approach aimed at developing the social sphere and infrastructure of municipal formations, the proposed method is more productive and justified for ensuring the integrated development of territories (Tolstoguzov & Mazurovskii, 2008).

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