

The assessment of the regional tourism infrastructure development



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Abstract. The Russian Federation has a high potential for tourism, but, according to the World Economic Forum, it ranks only 63rd in the world in the rating of travel and tourism sector competitiveness in 2013. The obstacle to tourism development in the country and its regions is still an underdeveloped tourist infrastructure, the slow pace of development and improvement of its basic elements. The article discloses the tourist infrastructure concept in the region, defines its structure, summarizes methodological approaches to its assessment and reveals the advantages and disadvantages of the considered methods. It presents the author's method to estimate the regional tourism infrastructure development that has been approbated by the data of the Northwestern Federal District. The research has resulted in the regions' differentiation by the following development levels: high, above average, average, below average. The evaluation results have helped to indicate the key problems, hindering the regional tourist infrastructure development, and to formulate the basic directions of its improvement. The author presents the matrix of tourism development prospects in the Northwestern Federal District regions, based on the portfolio analysis method. Thus, the most important condition for the tourism development is to achieve optimal levels of infrastructure provision in the region; and the regional economic policy in the sphere of tourism should focus on tourist infrastructure development.

Key words: Regional tourist infrastructure, method, tourism development issues, Northwestern Federal District.

Nowadays the tourism development issues are in focus of the regional economy, as this industry is highly profitable and dynamically developing. The Northwestern Federal district (NWFd) is profitably located due to unique climatic conditions and presence of the largest cultural heritage objects [9].

The inbound tourist flow in the district amounted to more than 11.5 million visitors in 2011. The leaders in the tourist flow volume have recently been Saint Petersburg, Leningrad and Vologda oblasts. Their share accounts for about 80% of the total inbound flow in the Northwestern Federal District (according to

the 2011 data). Other regions are lagging behind significantly (*fig. 1*). However, the growing volume of tourist services in the Pskov Oblast and the Komi Republic reveal active tourism development there in recent years (*fig. 2*).

In the period under review (2007–2012) the tourism of the Vologda Oblast has developed significantly: the tourism revenues have been growing, the share of this industry in the regional GRP has been increasing. In 2012 the enterprises of tourism sphere and related industries assigned 225.5 million rubles to consolidated budget of the Vologda Oblast (*fig. 3*). For 2007–2012 the tourism revenues per capita had grown by 80% and reached 10811 rubles in 2012 [4]. The tourism role in the regional economy should be specially emphasized, as the share of industry in the gross regional product has increased by 1.2 percentage points to 4.2%.

The regional tourism development is closely connected with tourist infrastructure, which either acts as an obstacle for the industry development, or determines its positive dynamics. However, for most NWFED regions

the infrastructure problems cause decrease in the territory's competitive advantages in the tourist services market.

In this regard, it is important to find the approach of integrated assessment of the region's tourist infrastructure and develop the directions of its improvement.

The detailed study of the regional tourist infrastructure requires clarifying its definition, structure and problems, hindering its development.

The tourist infrastructure concept is not new but the scientific literature lacks its common interpretation. The ambiguity and vagueness of the concept "tourist infrastructure" is caused by its insufficient attribution to certain types of economic activity and uncertain range of tourist infrastructure objects.

One should agree with D.F. Vaselikh's definition of regional tourist infrastructure. According to him, it is "a combination of material objects, which are the carriers of various tangible and intangible properties that ensure the highest possible quantitative and qualita-

Figure 1. Tourist flow in the regions of the Northwestern Federal District in 2011

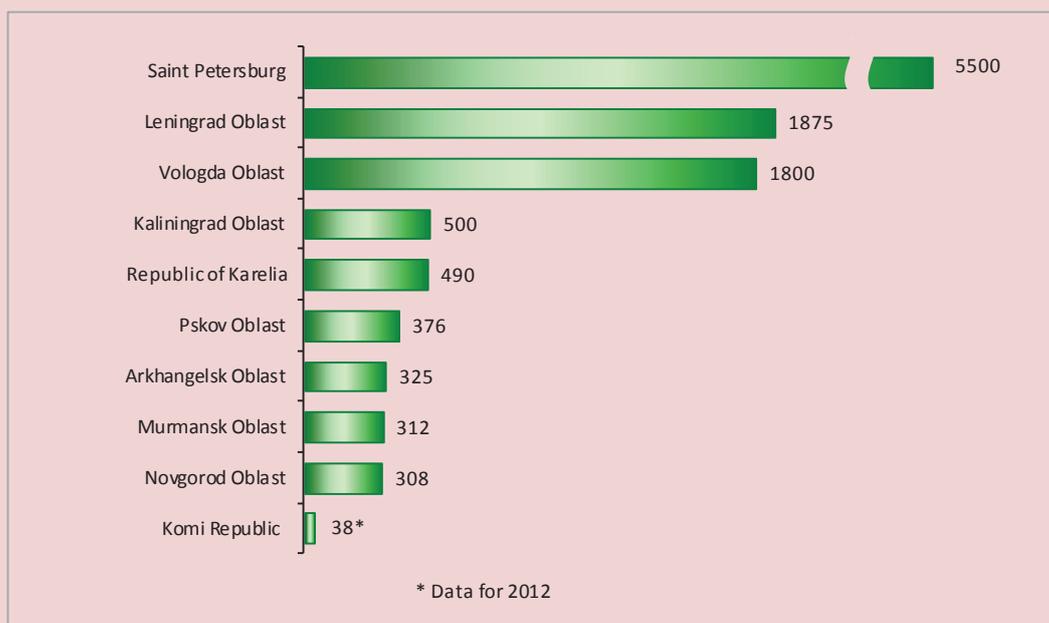


Figure 2. Tourist services volume in 2011

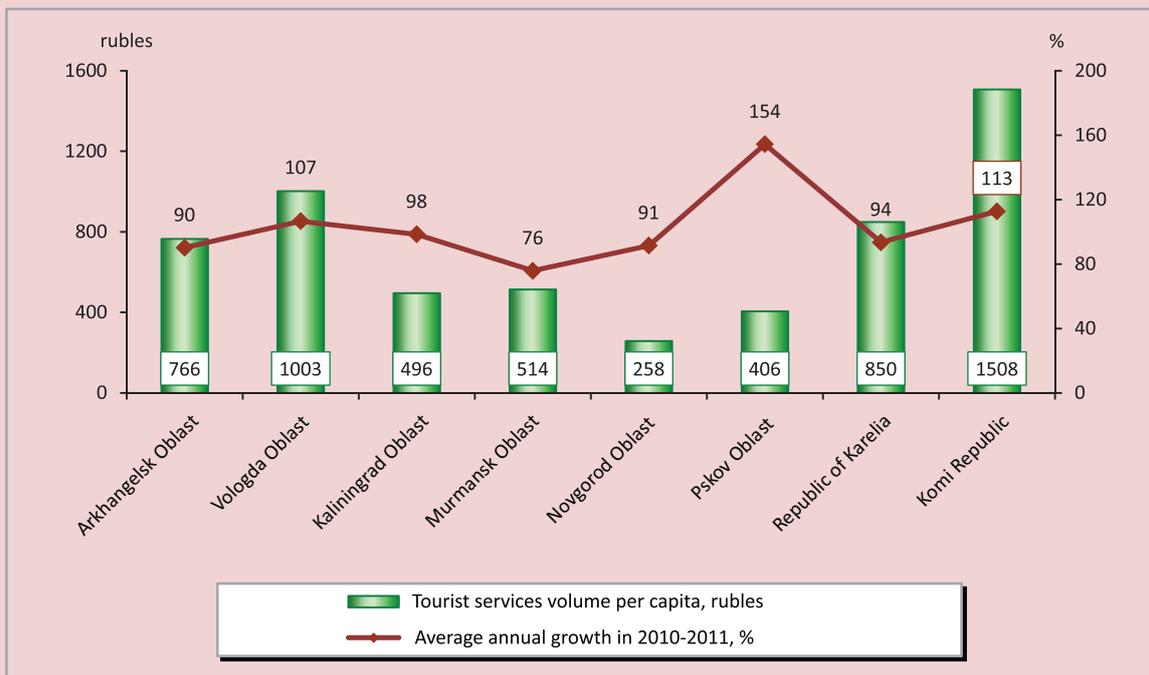


Figure 3. Total tourism revenue in the Vologda Oblast in 2007–2012, thousand people

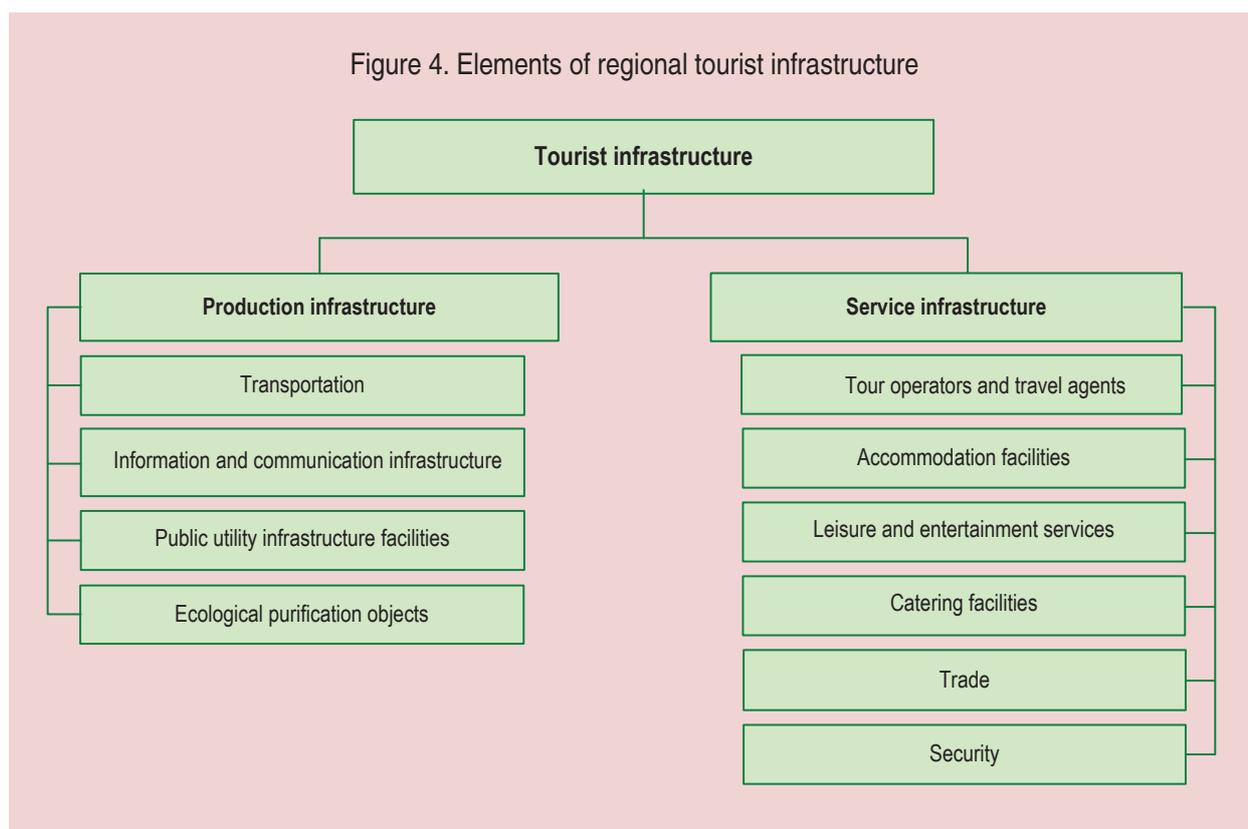


tive implementation of the tourists’ objectives in certain spatial-temporal parameters (in a particular place at particular time)” [3].

The results of theoretical and methodological analysis can determine the composition of the regional tourist infrastructure. It is a set of enterprises that create conditions to meet the

tourism needs, i.e. production infrastructure, and enterprises that directly meet different needs of tourists, i.e. services infrastructure (fig. 4). Therefore, the comprehensive assessment of tourist infrastructure development should be based on a thorough, coherent analysis of its elements [4].

Figure 4. Elements of regional tourist infrastructure



There are the authors' methods to directly assess tourist infrastructure development (for example, methods of V.S. Bogolyubov, I.G. Limonina, O.B. Evreinov, A.V. Kuchumov and others). Figuratively, these techniques can be divided into two approaches.

According to the first approach (I.G. Limonina, A.V. Kuchumov), the development of regional tourist infrastructure is evaluated through a combination of its elements. These methods single out "weak points" in the tourist infrastructure development in the territorial aspect, as well as provide an opportunity to conduct the comprehensive economic-geographical study of tourist infrastructure development in general, without reducing the significance of its separate elements. However, these methods have some disadvantages, as they do not clearly define the indicators system importance within each group of infrastructure elements, describing the current state of tourist infrastructure better. At the same time, some methods have incomplete composition.

The second approach representatives (V.S. Bogolyubov, O.B. Evreinov) estimate the regional tourist infrastructure through the analysis of its objects. The proposed model is very useful both for the annual and operational planning at tourist infrastructure enterprises and strategic business planning. However, the disadvantages are the following: the current system of statistical indicators can be appropriated at the regional level.

Summarizing the stated above, we can conclude that the most complete and objective method of tourist infrastructure estimation is that one, which is based on the existing tools and takes into account the official statistics indicators. In addition, this method can be supplemented by the qualitative indicators analysis of tourism infrastructure development, obtained by expert assessments and based on the survey results, conducted among tourists and enterprises of the tourism industry.

The method basis is the index of regional tourist infrastructure, quantitatively chara-

cterizing the level of its development and it is an arithmetic average of ten indicators indices (fig. 5). These blocks reflect the state of structural elements of the tourist infrastructure in the region.

According to Figure 6, at the first stage of calculation of a regional tourism infrastructure index the various indicators are presented in the form of normalized data when the real values are compared with the best in the sample.

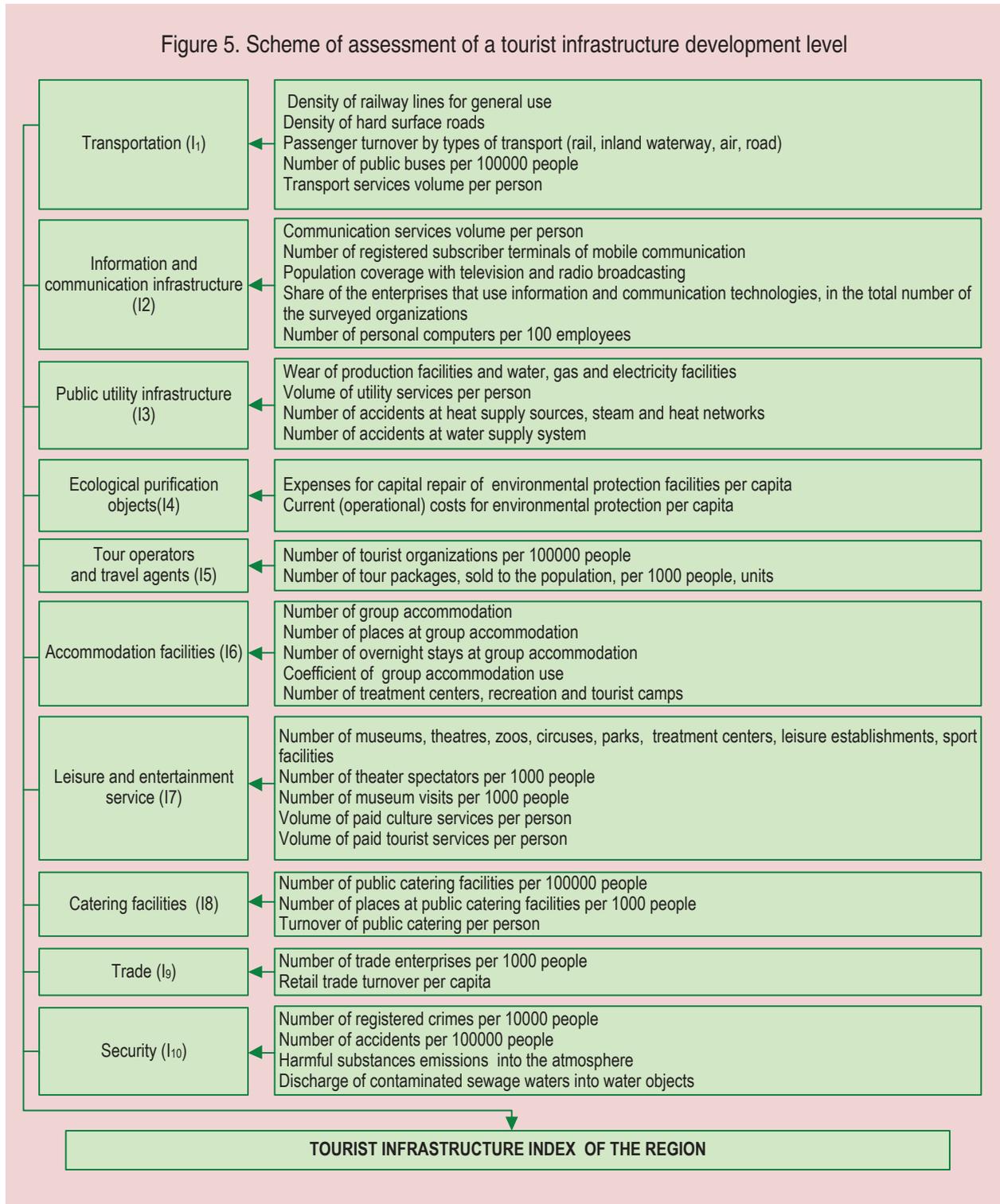
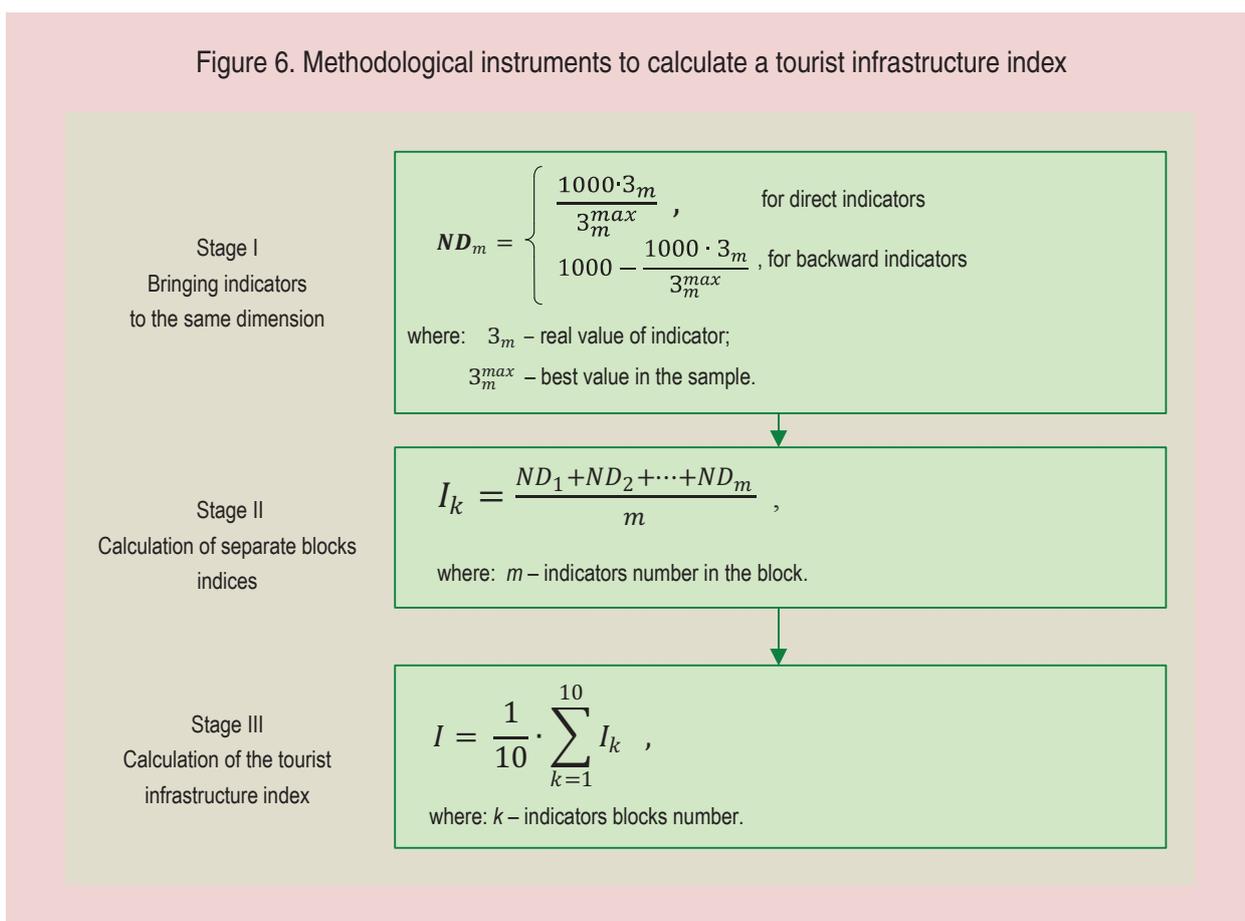


Figure 6. Methodological instruments to calculate a tourist infrastructure index



At the second stage the indices of individual blocks are calculated as the arithmetic average of the normalized indices values. At the final stage the integral index of tourist infrastructure is calculated.

The method approbation on the materials of NWF D subjects has resulted in differentiation of territories groups by the level of tourist infrastructure development (fig. 7).

The cell boundaries were formed, depending on the average value of the tourist infrastructure index in the Northwestern Federal District (tab. 1). According to the calculations, the average value of the tourist infrastructure index in 2011 was 488, maximum – 1000 (fig. 7).

The NWF D regions are distributed by the tourist infrastructure development level in 2011, according to the survey results (fig. 8).

The high level of tourist infrastructure development is recorded in Saint Petersburg,

a leader by most of the index components, except for the ecological purification objects and security block.

In the Murmansk Oblast the infrastructure development level is above average, due to the values growth of the indicators of public utility infrastructure facilities, ecological purification objects, information and communication infrastructure, catering facilities and trade.

The average level of tourist infrastructure development is identified in Novgorod, Kaliningrad, Archangelsk oblasts and republics of Komi and Karelia. The tourist infrastructure index value in these regions varies from 443 to 491.

The below average level of tourist infrastructure is observed in Leningrad, Vologda and Pskov oblasts, due to low rates by many index components.

Figure 7. Distribution of the NWFED regions, according to the tourist infrastructure index in 2011

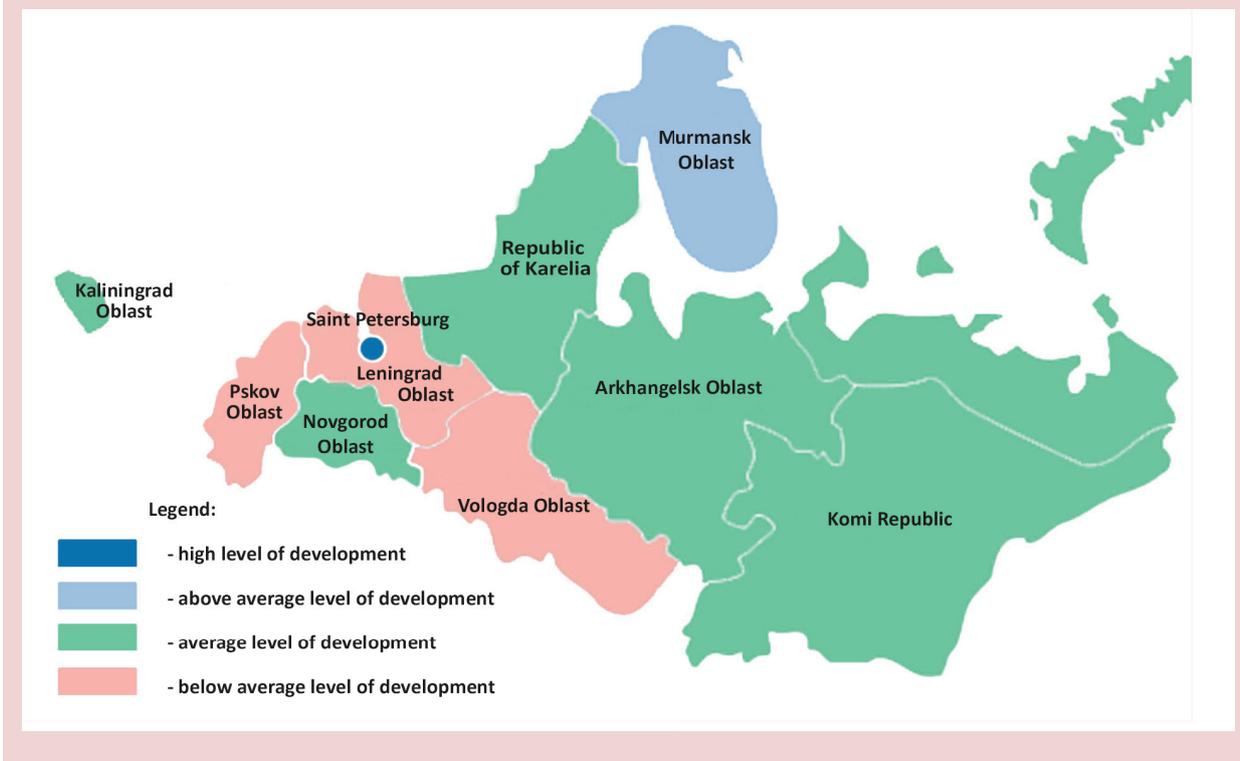


Table 1. Interpretation of threshold values for integral estimate of the tourist infrastructure development level

Group number (N)	Cell boundary		Tourist potential level
	Lower boundary	Upper boundary	
1	$\bar{I} - \frac{I_{max}}{2N} - \frac{4 I_{max}}{N}$	$\bar{I} - \frac{I_{max}}{2N} - \frac{3 I_{max}}{N}$	Very low
2	$\bar{I} - \frac{I_{max}}{2N} - \frac{3 I_{max}}{N}$	$\bar{I} - \frac{I_{max}}{2N} - \frac{2 I_{max}}{N}$	Low
3	$\bar{I} - \frac{I_{max}}{2N} - \frac{2 I_{max}}{N}$	$\bar{I} - \frac{I_{max}}{2N}$	Below average
4	$\bar{I} - \frac{I_{max}}{2N}$	$\bar{I} + \frac{I_{max}}{2N}$	Average
5	$\bar{I} + \frac{I_{max}}{2N}$	$\bar{I} + \frac{I_{max}}{2N} + \frac{I_{max}}{N}$	Above average
6	$\bar{I} + \frac{I_{max}}{2N} + \frac{I_{max}}{N}$	$\bar{I} + \frac{I_{max}}{2N} + \frac{2 I_{max}}{N}$	High
7	$\bar{I} + \frac{I_{max}}{2N} + \frac{2 I_{max}}{N}$	$\bar{I} + \frac{I_{max}}{2N} + \frac{3 I_{max}}{N}$	Very high

Note: I_{max} – the maximum value of the tourist infrastructure index, equal to 1000; \bar{I} – the average value of the tourist infrastructure index; N – the groups number, according to the tourist infrastructure level.

Figure 8. Distribution of the NWF D regions by a tourist infrastructure development level in 2011



It is critical to define the tourism development prospects by means of correlation of the tourism and recreation competitiveness levels and tourist infrastructure development in the region. For it, it is worthwhile to use the matrix, constructed on the basis of portfolio analysis method (*tab. 2*).

The leading NWF D region in tourism development is the city of Saint Petersburg, characterized by a high level of tourism and recreation competitiveness and tourist infrastructure development.

Very perspective regions are Murmansk, Kaliningrad, Vologda oblasts and the Republic of Karelia. To realize tourism development prospects in the Murmansk Oblast it is necessary to conduct a complex of measures, aimed at improving its tourism and recreation competitiveness. Kaliningrad, Vologda oblasts and the Republic of Karelia, having a sufficiently high level of tourism competitiveness, should pay more attention to enhancing a tourist infrastructure.

Achieving high performance in Leningrad, Novgorod, Pskov, Arkhangelsk oblasts and the Komi Republic is possible with significant investments in infrastructure projects and long-term encouragement of tourism and recreation competitiveness.

Thus, the matrix identifies correlation between tourist infrastructure and tourism development, singles out the regions, which should pay attention to tourist infrastructure development.

The problems, hindering the tourism infrastructure development in the regions, can be classified as following: infrastructure problems of the material and technological base and administrative-legal problems. The infrastructure problems include:

- insufficient development of production infrastructure, due to high expenses to construct the engineering infrastructure objects for tourism and recreation complexes (electricity network, water supply, transportation, treatment facilities);

Table 2. Matrix of tourism development prospects in the NWFD regions

		Tourist infrastructure development level			
		High	Above average	Average	Below average
tourism and recreation competitiveness level in the region	High	Saint Petersburg	–	–	–
	Above average	–	–	Kaliningrad Oblast	Vologda Oblast, Republic of Karelia
	Average	–	–	Novgorod Oblast	Leningrad Oblast
	Below average	–	Murmansk Oblast	Arkhangelsk Oblast	–
	Low	–	–	Komi Republic	Pskov Oblast

- moral and physical wear of the service infrastructure material base;
- ageing and wear of tourist infrastructure;
- uneven development of tourist infrastructure in districts and cities of the region;
- lack of necessary service infrastructure;
- weak information provision of the territory (absence of speakerphones, information stands and signs, including in foreign languages), and others.

The administrative-legal problems are presented by three groups:

1) problems of legal provision of tourism and recreation industry (particularly, tourist infrastructure);

2) low investment activity in the industry, lack of effective state encouragement mechanisms to invest in its development;

3) lack of highly skilled personnel.

Thus, this classification of the problems, hindering tourist infrastructure development, gives us an opportunity to single out two basic directions to develop and improve tourist infrastructure in the regions:

- upgrade of the material and technological base;
- development of the administrative regulation system.

Meeting the identified challenges in the framework of these directions will give incentives for tourist infrastructure upgrade in the regions and successful regional tourism development. These measures will contribute to the tourist inflow increase and, as consequence, to the revenues growth, development of related economy sectors and employment increase.

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