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Potential of geotourism for regional development: the case of “Iron Gates” park in Serbia

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This paper focuses on the case of “Iron Gates” National Park located along the Danube between Serbia and Romania and discusses the opportunities and prospects for developing geotourism. Apart from being an area of natural beauty, this park comprises a wide range of spectacular geological sites, historical and cultural monuments. The authors also examine the concept of geotourism and show its connection to other types of tourism such as nature tourism and adventure tourism. Using statistical methods and methods of comparative analysis, they analyse the data on tourism development in Đerdap (Serbia) and Mehedinți County (Romania) in 2015. Such indicators as the number of tourists and overnight stays, the number of accommodation facilities, the coefficient of functionality, and so on are considered. The conclusion is made that the national park “Iron Gates” holds significant potential for the development of sustainable tourism in the region if the park’s geoheritage sites are consolidated into a single tourism route “Iron Gates Geoheritage”, which would be highly likely to become a successful product in the tourism market. This product could be presented either directly, as a tourist destination, or indirectly, through event tourism, excursions, transit tourism and so on, and offered to both domestic and international tourists.

KEYWORDS

geotourism, sustainable regional development, “Iron Gates” National Park, sustainable tourism, Serbia, Romania

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Потенциал геотуризма в качестве драйвера регионального развития: случай сербского парка «Железные врата»

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Эта статья посвящена национальному парку «Железные врата», расположенному вдоль Дуная между Сербией и Румынией, и в ней рассмотрены возможности и перспективы развития геотуризма. Помимо того, что район парка отличается природной красотой, он включает в себя широкий спектр впечатляющих геологических, исторических и культурных памятников. Авторы рассматривают понятие геотуризма и показывают его связь с другими видами туризма, такими как природный туризм и приключенческий туризм. Используя статистические методы и методы сравнительного анализа, они анализируют данные о развитии туризма в Чердапе (Сербия) и округе Мехединцы (Румыния) в 2015 г. Рассмотрены такие показатели, как количество туристов, ночевков, количество объектов размещения, коэффициент функциональности. Сделан вывод о том, что национальный парк «Железные врата» обладает значительным потенциалом для развития туризма в регионе, который будет реализован, если объекты геонаследия парка будут объединены в единый туристический маршрут «Географическое наследие Железных врат». Данный продукт с большой вероятностью станет успешным на туристическом рынке. Этот продукт может быть представлен либо напрямую, как туристическое направление, либо косвенно, посредством событийного туризма, экскурсий, транзитного туризма и т. д., и он может предлагаться как внутренним, так и международным туристам.

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КЛЮЧЕВЫЕ СЛОВА

геотуризм, устойчивое региональное развитие, Национальный парк «Железные врата», устойчивый туризм, Сербия, Румыния

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Introduction

Before the 1980s, mass industrial tourism was a prevalent concept and the development of tourism was seen in terms of such economic indicators as profit and employment rates or gross national product. However, this approach had a negative effect on the environment and society. Such adverse impacts, in turn, were detrimental to the quality of tourism product resulting in a fall in the demand for destinations in which tourism caused environmental damage, was destructive to host communities and their cultures. Consequently, the idea of new, alternative tourism emerged, which boosted interest in sustainable products and sustainable development in all types of tourism [1].

Geotourism is tourism which aims to sustain or enhance natural environment and its geodiversity. It is a highly specialized type of tourism focused on geostructures (landscapes, reliefs, profiles, fossils and so on) and as such it is related to nature tourism and ecotourism [2–4]. Geotourists are usually interested in such activities as looking for fossils and interesting relief forms, going on tours and following theme trails. While visiting tour sites, tourists are informed by expert guides about the processes which result in the formation of geostructures. As a result, tourists will know more about the environment and the character of individual structures and processes. Thus, the concept of geotourism is to some extent similar to ecotourism and it can be considered desirable only if it encourages tourists and locals to treat the environment with respect. Geotourism can be based on both cultural and historical monuments if structures which are visited were built from local rocks. Geotours may also present the mining industry of the region so that tourists can see how geology influenced peoples' lives as well as negative effects that human activities had on the environment [5–7]. Geotours are usually rounded off with services offered at geoparks, at which geological heritage is protected and promoted through sustainable use of resources [8; 9].

At the same time, the value of geodiversity can be attractive for those tourists who are interested in adventure activities such as mountaineering, amateur caving or trekking. Moreover, there are some elements of geodiversity that are essential for recreation, for instance, skiing, rafting, hiking or climbing. Thus, the relation between ecotourism and nature tourism can be compared to the one between geotourism and adventure tourism.

There are also activities that are more focused on enhancing tourists' understanding of the environment and improving the environment (ecotourism and geotourism), whereas in other cases tourists seek enjoyment, recreation and adventure (nature tourism and adventure tourism based on geodiversity).

To ensure sustainability in tourism, an integrated approach to planning and management is required. Any planning should be long-term and proactive, and plans should be integral to or in harmony with other ways of using the area. Finally, all plans must correspond to the needs of the host community. As for management, it should be comprehensive and in line with the industry sectors and activities relevant to the area; projected outcomes should be clearly stated and responsibilities, delegated. This understanding of planning and management is aimed at protecting the environment and ensuring sustainable use of natural resources. With a few adjustments and amendments, it can be applied to develop geotourist destinations [8–11].

Geographical Location and Characteristics of “Iron Gates” Park

The name “Iron Gates”, or “Đerdap” in Serbian, denotes not only a gorge formed by the Danube making its way through the Southern Carpathians and connecting the Pannonian and Lower Danube Basins. It is also the name of the national park established in 1974. The park is located in the north-east of Serbia, in South-East Europe. Stretching along Serbia's border with Romania, the park lies in the territory of three municipalities: Golubac, Majdanpek and Kladovo. The “Iron Gates” park comprises four gorges separated by three valleys. The gorges alternate with the valleys in the following order from the west to the east: the Golubac Gorge, the Valley of Liubcova, the Lady's Eddy Gorge (“Gospodin vir”), the Valley of Donji Milanovac, the Kazani Gorge, the Oršava Valley and the Sipska Gorge. Main orographic features include the Golubac Mountains, Šomrda, Liškovac, Veliki Greben and Miroč. The valleys are formed by the Danube tributaries that run through the mountains and also feature a number of barren karst plateaus. A water reservoir belonging to the “Đerdap I Hydropower and Navigation System” was formed when a dam was constructed to hold back the Danube and raise its level. Since then, the reservoir has had a considerable impact on

the environment, for instance, the weather conditions. The mean annual temperature (the village of Tekija – 11.4 °C) and precipitation values (the village of Tekija – 801.9 mm) in this area have been somewhat higher than the respective values in Serbia. In turn, the improvement of weather conditions has had a positive effect on the region's flora [12].

As for the demographic trends in the area, the entire territory has experienced depopulation since mortality and emigration rates exceed natality and immigration rates. Three major towns of the region are Golubac, Donji Milanovac and Kladovo. The main branches of industry include hydropower engineering (“Đerdap I” and “Đerdap II” Hydroelectric Power Plants), transportation (the Danube Pan-European Corridor VII), tourism, agriculture, fishing and fisheries, forestry, stone extraction in the village of Brnjica and copper mining in Majdanpek [13–16].

Methodology

This paper uses statistical methods to determine the number of visitors and overnight stays in Đerdap in Serbia and Mehedinți County in Romania in 2015 as well as the number of accommodation facilities, the length of stay of tourists, coefficient of functionality, capacity utilization and intensity of functionality in Đerdap and the cross-border region of Mehedinți. These data are then used in comparative analysis of tourism development in these regions.

The analysis focuses on four indicators: the length of stay of tourists, functionality coefficient, capacity utilization and intensity of functionality. The length of stay is calculated as the ratio of the number of nights to the number of tourists. The coefficient of functionality is the ratio of the number of beds to the number of guests; capacity utilization, the ratio of the number of nights to the number of beds during the year; and the intensity of functionality shows the amount of tourist traffic in the given location within a certain period.

Geotourism in “Iron Gates” Park

In addition to geodiversity and biodiversity (shown in Table 1 and 2 respectively) and cultural and historical heritage (Table 3), the “Iron Gates” park can attract visitors by its natural history exhibition displayed in the Visitor Centre, museums, hiking trails (see Table 4), cycling routes, leisure centres and a variety of popular events.

Out of the 651 geoheritage sites identified in Serbia, 26 are located in the “Iron Gates” area, which means that the park has vast potential for consolidating these sites into a single route that could be popular on the tourism market. Geoheritage sites could complement the tourism offer that is already available in this Serbian region [11].

Fourteen sites located in “Iron Gates” have been protected by the state as nature reserves and special nature reserves. In addition, seventeen cultural and historical monuments found in the territory have been placed under protection of “Iron Gates” National Park or have the status of historical or cultural monuments. Both natural and cultural heritage of “Iron Gates” has a considerable scientific, educational and tourism value [16; 18].

The most prominent peak in Gospođin Vir gorge is called Sokolovac and is located at the altitude of 625 meters, sprawling between two rivers Kozička and Pesača.

The entire Gospođin Vir gorge, from Bosman to Greben, can be observed from this lookout point. Greben, 199 meters above sea level, is located at the end of the hill Boljetinsko Brdo and has most peculiar geological formations.

A wonderful view of Donjomilanovačka ravine, from Greben to the far side of Golubinje, can be admired from Kovilovo, known also as Golo Brdo (a hill), which is located at the altitude of 358 meters. Ploče (375 m), Veliki Štrbac (768 m) and Mali Štrbac (626 m) are the highest peaks of Miroč Mountain as well as the most attractive lookout points in “Iron Gates” with breath-taking views over the Kazani gorges. They belong to the first level of protection because many animal and plant species can be found in their forest ecosystems. There are eight hiking trails in “Iron Gates” and some of them lead to the above-mentioned lookout points.

Accommodation Facilities and Tourist Flows in “Iron Gates” Park

In 2015, there were two establishments that belonged to the category of basic accommodation facilities in Golubac municipality, namely a two-star hotel and a B&B. In total, these two establishments had 59 available rooms with 122 permanent and 50 extra beds (177 in total). As regards the category of complementary accommodation facilities, there were 21 one-star private rooms with 50 permanent beds and one extra bed. In total, there were 80 available rooms with 223 permanent and 51 extra beds (274 in total) [19].

Table 1

Geoheritage sites in "Iron Gates"

GEOHISTORICAL AND STRATIGRAPHIC HERITAGE SITES	
Palaeozoic sites	
Profile of Lower Carboniferous olistromes	<i>Avramac creek valley, between Mountain Šomrda and River Kosobrdska, outside Donji Milanovac</i>
Profile of Westphalian river sediments	<i>River Boljetinska valley, outside Boljetina</i>
Jurassic sites	
Typical evolution profile in Southern Carpathians, between the Permian and Jurassic periods	<i>Pesača, by the roadside, "Iron Gates" National Park</i>
Profile of liassic sediments with remnants of continental macroflora	<i>Dobra, on the Danube, "Iron Gates" National Park</i>
Profile of Klaus facies or Klaus strata with predominantly ammonite fauna	<i>Greben (Reef) on the Danube and River Boljetinska canyon, Iron Gates National Park</i>
Profile of Klaus strata with predominantly ammonite fauna	<i>Ribnica, outside Donji Milanovac</i>
Stratotype profile, pelagic evolution in the Southern Carpathians	<i>Veliki greben (Great Reef), outside Donji Milanovac</i>
Profile of Boljetina limestone formation (Jurassic period)	<i>the place where the River Boljetinska flows into the Danube, outside Donji Milanovac</i>
Profile of pelagic evolution in the Jurassic period bordering on the Lower Cretaceous period	<i>Lepensko Brdo (a hill), in the vicinity of the tunnel, Iron Gates National Park</i>
Cretaceous sites	
Profile of shallow-water strata of Alb.-Cenom	<i>Jabukovac, Fountain Bobotovac outside Donji Milanovac</i>
Profile of deep-water formations of Lower Cretaceous period (limestone and marly)	<i>Veliki Greben (Great Reef) hinterland, Donji Milanovac</i>
Džervin strata, Upper Cretaceous period	<i>Džervin Hill on the Danube, between Negotin and Kladovo</i>
Neogene sites	
Abundant fauna from the Middle Badenian stage	<i>Donji Milanovac</i>
PETROLOGICAL HERITAGE SITES	
Sedimentary rocks	
Jurassic limestone	<i>Dobra-Boljetin</i>
Cretaceous limestone	<i>Dobra-Boljetin</i>
Igneous and metamorphic rocks	
Hercynian granite	<i>River Porečka valley, from Miloševa Kula in the direction of Bor</i>
Amygdaloid spilite	<i>Dobra - Donji Milanovac</i>
Carboniferous-Permian tuffs	<i>Dobra - Donji Milanovac</i>
GEOMORPHOLOGICAL HERITAGE SITES	
Fluvial relief	
"Iron Gates" Gorge	<i>"Iron Gates" National Park</i>
Boljetinska River canyon	<i>"Iron Gates" National Park</i>
NEOTECTONIC STRUCTURES	
Epeirogenic movement	
Valleys of right-bank Danube tributaries	<i>Ključ, near Kladovo</i>
SPELEOLOGICAL STRUCTURES	
Caves	
Gradašnica cave	<i>Mosna</i>
Abysses	
Buranov ponor	<i>Golubinje</i>
Nemački ponor	<i>Miroč</i>
Suvi ponor	<i>Miroč</i>
Ibrin ponor	<i>Miroč</i>

Source: Inventory of Geoheritage Sites, 2004.

Table 2

Nature reserves in “Iron Gates”

Reserve name	Reserve description
Golubac	Mixed forest consisting of Oriental hornbeam and common lilac, ailanthus & common lilac, beech & Oriental hornbeam, Hungarian oak, Turkey oak, Oriental hornbeam and beech with walnut
Bojana	Pure stands of walnut (<i>Juglans regia</i>) surrounded by mixed stands of beech and walnut (<i>Fagetum submontanum juglandetosum</i>); individual trees of Turkish hazel, Montpellier maple, flowering ash & common hornbeam
Brnjica River Gorge	Abundance of sessile oak and Turkish oak (<i>Quercetum petraeae-cerris</i>)
Tatarski Vis	Natural forests of sessile oak and hornbeam on crystalline schists and beech, linden & walnut on limestones
Šomrda	Northernmost habitat of holly (<i>Ilex aquifolium</i>)
Tilva Toma	Pure beech forest
Ciganski potok Stream	Pure mixed forest of walnut and beech (<i>Juglando-Fagetum moesiacaе</i>) on the limestone substratum
Bosman-Sokolovac	Riparian area with Turkish hazel and common lilac
Čoka Njalta-Pesača	Natural arboretum, 40 different plant species
Lepenski Vir	Complex relict communities; relict forest of hackberry and walnut (<i>Celto-Juglandetum</i>) in Serbia; individual stand of hackberry, walnut, downy oak, Montpellier maple and lilac
Boljetin River-Greben	Willow belt
Kovilovo	Forest of sessile oak and hornbeam
Gradašnica	Mixed forest of beech and oak
Veliki Štrbac, Mali Štrbac with Tabula Traiana	Abundance of Turkish hazel; endemic species (yew, Montpellier maple, hackberry, smoke-tree & common lilac)

Source: [17]

Table 3

Cultural and historical heritage sites in “Iron Gates”

Object	Description of the object
Frontiers of the Roman Empire	Ancient fortification system along the right bank of the Danube
Lepenski Vir	Early Mesolithic to Early Neolithic settlement (9500–5500 BC), Boljetin village
Golubac Fortress	Medieval fortress at the entrance to the Djerdap Gorge
Rudna Glava	Earliest centre of copper mining in the Balkans, near Majdanpek
Kostol-Pontes/ Transdrobeta	Castrum Pontes, next to the Trajan's bridge, Kladovo
Diana-Karataš Diana/Zanes-Station	Remains of a fortress and castle, downstream of the HPP Djerdap I, Kladovo
Fetislam	Medieval fortress, Kladovo
Miroč Castle	Remains of a Roman fortress
Pena	Signal station between Mali Kazan and Veliki Kazan Gorge
Stara Čaršija	Old bazaar crafts centre, Kladovo
Saint Nicolas Church	Built in 1840 on the base of an old wooden church, Donji Milanovac
Tumane Monastery	Monastery complex, near Golubac
Golubinje traditional house	Reconstruction of an old traditional village, A part of Lepenski Vir complex
Katarinine Livade	Bronze Age settlement
Trajan' plaque/ Tabula Traiana	Latin inscription dedicated to the Roman Emperor Nerva Trajan, carved in the rock above the Danube River
Miroč village	Traditional architecture, Miroč Mt.
Manastirica Holy Trinity	Renovated monastery complex, Manastirica village (Novi Sip-Kladovo)

Source: [17]

Table 4

Hiking Trails in “Iron Gates”

Trail	Length (km)	Average Slope (%)	Trail Difficulty Rating	Trail Type	Hiking Time	Start	Finish
Bosman – Sokolovac	10	15	Moderate	Hunting	4 hrs	Belgrade – Kladovo highway	Sokolovac, a mountain peak and a look-out point (683 m)
Gradašnica Cave	2	15–20	Moderate	Mountaineering	45 min	Miročki road	Gradašnica Cave
Buranov Ponor (abyss)	2.5	5–10	Easy	Tourist trail	90 min	Belgrade – Kladovo highway, starting point at Dobra Voda	Buranov Ponor
Veliki Štrbac and Mali Štrbac (mt. peaks)	9	20	Moderate	Mountaineering	3 hrs	Belgrade – Kladovo highway, starting point at Pecka Bara	Veliki Štrbac (768 m) and Mali Štrbac (626 m)
Boljetinska River canyon – Greben	1.8	5	Easy	Recreational trail	30 min	Boljetinsko Hill	Greben
Balta Alu Sontu lake – Glavica	5	10	Easy	Recreational trail	2.5 hrs	Donji Milanovac, from Paprenicki Creek	Balta Alu Sontu
Brnjička River canyon	21	10–20	Moderate	Tourist trail	8 hrs	Forest path, at the exit from village Brnjica	Rakovica village
Kovilovo	4	3–5	Easy	Tourist trail	2.5 hrs	Regional road Donji Milanovac – Majdanpek via Oman	Kovilovo

Table 5

Accommodation Facilities in Golubac Municipality in 2015

Golubac	Establishments	Rooms	Total number of beds	Permanent beds	Extra beds
Total	2	80	223	172	51
Basic accommodation facilities	2	59	172	122	50
Total number of hotels	1	50	150	100	50
Two-star hotels	1	50	150	100	50
Bed and Breakfast (Guest houses)	1	9	22	22	0
Complementary accommodation facilities	0	21	51	50	1
Total number of private rooms	...	21	51	50	1
One-star private rooms	...	21	51	50	1

Source: Statistički godišnjak Republike Srbije (2015). Beograd: Republički zavod za statistiku.

Table 6

Accommodation Facilities in Majdanpek Municipality in 2015

Majdanpek	Establishments	Rooms	Total number of beds	Permanent beds	Extra beds
Total	2	370	762	738	24
Basic accommodation facilities	2	300	580	580	0
Total number of hotels	2	300	580	580	0
Three-star hotels	2	300	580	580	0
Complementary accommodation facilities	0	70	182	158	24
Total number of private rooms	...	70	182	158	24
Two-star private rooms	...	70	182	158	24

Source: Statistički godišnjak Republike Srbije (2015). Beograd: Republički zavod za statistiku.

In the same year, there were registered two establishments that belonged to the category of accommodation facilities in Majdanpek municipality, namely two three-star hotels with 300 rooms and 580 permanent beds. In terms of complementary accommodation facilities, there were also 70 two-star private rooms with 158 permanent and 24 extra beds (182 in total). Overall, there

were 370 available rooms with 738 permanent and 24 extra beds (762 in total) [19].

In Kladovo municipality in 2015, three establishments were registered, two of which were hotels (a four-star hotel and a one-star hotel) and one children and youth resort. There were in total 430 rooms, 197 in the hotels and 233 in complementary accommodation facilities. There

were 25 three-star private homes and apartments and 77 private rooms. The children and youth resort had 131 rooms with 360 permanent and 84 extra beds (444 in total). There were 1,052 permanent and 108 extra beds, in total 1,160. There were, therefore, seven establishments in “Iron Gates” with 880 rooms and 2,145 beds available (1962 permanent and 183 extra beds) [19].

According to official records, there were in total 46,773 tourist arrivals at “Iron Gates” in 2015, made by 37,620 domestic and 9,153 international tourists. There were in total 94,934 registered overnight stays (75,459 domestic tourists and 19,475 international tourists). As can be seen

from Table 5, in 2015, there was an upward trend in the number of both domestic and international visitors in 2015 in comparison with 2013 and 2014 [19].

Comparison of Tourism in Đerdap and Mehedinți

Table 9 shows the level of tourism development in Đerdap and Mehedinți. Based on the available data, we can conclude that the length of stay of tourists in both destinations is about two days. Such a short period of stay can be explained by the decline in the purchasing power of the population, the rising prices of services,

Table 7

Accommodation Facilities in Kladovo Municipality in 2015

Kladovo	Establishments	Rooms	Total number of beds	Permanent beds	Extra beds
Total	3	430	1160	1052	108
Basic accommodation facilities	2	197	471	459	12
Total number of hotels	2	197	471	459	12
Four-star hotels	1	53	71	71	0
Two-star hotels	1	144	400	388	12
Complementary accommodation facilities	1	233	689	593	96
Children and youth Resorts	1	131	444	360	84
Total number of private rooms	...	77	183	178	5
Three-star private rooms	...	77	183	178	5
Total number of private apartments	...	25	62	55	7
Three-star private apartments	...	25	55	7	

Source: Statistički godišnjak Republike Srbije (2015). Beograd: Republički zavod za statistiku.

Table 8

Tourist Flows in Iron Gates for the Period 2013–2015

Year	Municipality	Arrivals			Overnight stays		
		Total	Domestic	International	Total	Domestic	International
2015	Kladovo	22,347	18,791	3,556	49,326	40,810	8,516
	Majdanpek	21,507	16,876	4,631	41,751	31,910	9,841
	Golubac	2,919	1,953	966	3,857	2,739	1,118
2014	Kladovo	16,050	13,293	2,757	39,102	30,757	8,345
	Majdanpek	22,523	17,795	4,728	43,596	34,874	8,722
	Golubac	2,766	2,152	614	4,000	3,258	742
2013	Kladovo	23,746	20,610	3,136	63,577	55,715	7,862
	Majdanpek	25,562	20,979	4,583	51,924	42,838	9,086
	Golubac	4,962	4,426	536	8,878	8,120	758

Source: Statistički godišnjak Republike Srbije (2015). Beograd: Republički zavod za statistiku.

Table 9

Tourism development of Đerdap and Mehedinți

Tourist development indicators	Number of inhabitants (2011 Census)	Number of tourists	Number of nights	Number of beds	Length of stay (per day)	Functionality coefficient (%)	Capacity utilization (%)	Functionality intensity (%)
Đerdap (Serbia)	49,650	46,773	94,934	2,145	1.9	4.3	12.1	94.2
Mehedinți (Romania)	265,390	81,003	165,641	2,174	2.0	0.8	20.9	30.52

Source: Statistički godišnjak Republike Srbije (2015). Beograd: Republički zavod za statistiku; National Institute of Statistics. Retrieved from: <http://statistici.INSSE.ro/shop/>

underdeveloped tourism infrastructure and lack of advertising. The coefficient of functionality in Đerdap (4.3%) is much higher than in Mehedinți (0.8%): both destinations have approximately the same number of beds, but the number of inhabitants in Mehedinți is about five times higher than the number of inhabitants in Đerdap. However, this indicator also points to greater sustainability of tourism in the Romanian region, as the local population is not burdened by the construction of infrastructure. The low utilization of accommodation capacities – 12.1% – shows that economically, tourism in Đerdap still has a long way to go. The intensity of functionality in Đerdap is very high (94.2%) and is almost three times higher than in Mehedinți. According to our findings, the tourist traffic in Đerdap significantly exceeds the number of local residents, which means that there is demand for this destination which the host community might benefit from in the future through involvement in travel business, participating in cross-border projects and infrastructural development.

Conclusion

“Iron Gates” National Park has much potential for consolidating geoheritage sites into a single tourist route called “Iron Gates Geoheritage”, which would in all probability enjoy success in the tourism market. Geoheritage sites could be incorporated into the current tourism offer that is already available in both regions. In this case, geo-

heritage sites could be presented either directly, as tourist destinations, or indirectly through event tourism, excursions, transit and other types of tourism. Geoheritage sites usually appeal to tourists if they are related to tours of archaeological sites, hiking tours and cultural tours or, in other words, recreational and educational tours.

The potential of both regions for the development of geotourism stems from their border positions and the low pressure that such sustainable tourism puts on the environment. Both regions are characterized by geodiversity, biodiversity and abundant cultural heritage. Some financial investment is required, however, to restore and build the necessary tourism infrastructure and to make the tourism industry more efficient. Other problems to deal with are the decline in the local population, which can lead to personnel shortages, poor management of natural and cultural resources and economic instability, resulting in the declining purchasing power of tourists coming to this destination. The orientation of tourist agencies towards inbound rather than outbound tourism, as well as targeted and professional promotion of geo-tourism will surely improve the tourism development of Đerdap and Mehedinți regions. In the future, it would be necessary to consider the positive and negative effects of an increase in the number of tourist arrivals as this trend may be detrimental to the park's eco-system, put excessive load on the carrying capacity of the park's sites and influence the quality of tourist services.

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