INNOVATION IN SENIOR TOURISM: CREATING ENERGY EFFICIENT AND HEALTH SUPPORTED TOURIST OFFER

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ABSTRACT

Recent studies show that seniors will soon become one of the major prospective segments in hospitality and travel industry. Given that population aged 65+ is usually retired with pensions, they have leisure time for travelling at any time of the year. They are also the most demanding expecting services excellence and high-level security while at the same time, 63% of seniors aged 65-74 reported some sort of chronic illness. Hence, energy-efficient and health-focused facilities can be a significant potential for tourism development in Sarajevo region, which is a popular destination considering its unique nature, rich gastronomic, cultural and historical heritage. However, currently there is no market segmentation tailored to specific needs of senior tourists and research aims to explore opportunities for this type of services with the objective of introducing accommodation facilities for elderly based on eco-smart solutions with highlighted focus on well-being and health. Setting of still water machines and installation of renewable energy system for electricity, ventilation and heat can have various positive effects increasing security, providing more healthy conditions, influencing life expectancy and counteracting the aging. Methodology includes feasibility study of eco-smart and health-oriented facility for seniors while practical implications for future actions are given in the conclusion.

Keywords: innovation; senior tourism; eco-smart energy; health care; sustainable development
1. INTRODUCTION

Aging of population in majority of nations along with other changes regarding mature population such as socio-demographics, health status and travel behavioral patterns is one of primary reasons for the development of appealing tourism target group that can be referred to as the senior tourists segment, which is nowadays a part of the global tourism and travel industry (Patterson, 2006; Schroder et al., 2007; Nimrod et al., 2010). Abovementioned socio-demographic trends influencing traveling behavior patterns of elderly population are significantly determined by economic factors and social conditions such as the slowing of population and household growth and an increasing segmentation of travel markets implicating the shift from production market to market research and the promotion at smaller target groups, including senior population, such as regional and local marketing (Nedelea et al., 2011). The importance of current and future mature population is explained in several works highlighting the desirability of not limiting tourist offer to the specifications of the elderly consumers today, but also exploring the potential buying patterns and preferences of the future generations in regard to products and services that they will expect and want to buy in the near future while traveling (Tongren, 1988; Littrell et al., 2013).

The improvement in general health condition of older population in the contemporary world society as well as the substantial developments of technology and travel management convenience has produced strategies specifically aimed at the potential activation of tourism which can be expected from the demographics 25-30 years from now. However, nowadays 63% of seniors aged 65-74 reported some sort of chronic illness and recent studies found that activation intervention in the form of traveling is a potentially promising approach to a changing senior population lifestyle that can to some degree improve chronic disease outcomes and in general improve their general health status (Frosch et al., 2010). Travelling can increase one’s life expectancy and change daily routine of elderly (Alén et al., 2012). Being active in later stages of life help seniors to improve their mental and physical health. Mostly, they travel for relaxation, socializing and meeting new people, visiting new places and enriching experiences (Fleischer and Pizam, 2002). Specifically, older tourists are motivated to travel for seeking rewards rather than escapism (Le Serre et al., 2013) and thus according Jang and Wu (2006) main push travel motivations for elderly include visiting friends and relatives, health, and rest and relaxation. Taking in consideration what was above mentioned, energy-efficient and health-focused facilities can be a significant potential for tourism development in Sarajevo region, which is a popular destination considering its unique nature, rich gastronomic, cultural and historical heritage. Bosnia and Herzegovina with its capital was always open for tourists from foreign countries which is shown in the tourist’s flows, i.e. almost 966,870 tourist visits in 2015 from neighboring Croatia (12.8%) and Serbia (9.4%),
but also other countries including Italy (8.7%), Turkey (8.6%), Slovenia (5.9%) and Poland (5.2%), (National Agency for Statistics, 2015).

However, currently there is no market segmentation tailored to specific needs of senior tourists in Sarajevo and research aims to explore opportunities for this type of tourism services with an objective of introducing accommodation facilities for elderly based on eco-smart solutions with a highlighted focus on well-being, health and active lifestyle and traveling. The aim is to deepen understanding of senior tourism as a relatively newer concept of tourism and explore opportunities of opening a new tourism facility in Sarajevo region in the form of a feasibility study and strategic plan specially designed for senior tourists. Statistics regarding the subject matter implicate that the segment of population aged 55 and older will increase the overall volume of revenue generated in tourism sector the most compared to other target groups since these elderly adults’ characteristics include broad travel experience, which makes them more demanding customers, but also allowing tourist demand to shift away from peak periods of the year because they are usually retired with pensions and have leisure time for travelling at any time of the year (Alen et al., 2012).

2. METHODOLOGY

Methodology of the paper is based on several descriptive analytical methods, namely PEST concept analysis incorporating the numeric evaluation of factor influence, industry sector analysis including development phase through the life cycle prism and the Porter model aimed at a long-term structural analysis of the particular industry, its attractiveness and profitability, which are further explained in detail. PEST concept represents commonly used analytical approach in consideration of business external environment examining political, economic, social and technological influence and describing a macro factors framework which is an important component of the strategic management environmental scanning (Gupta, 2013). Industry sector analysis consists of the determination of specific industry for which the business is relevant to and its phase of adjustment as well as the Porter model of evaluation of attractiveness and profitability of the segment. Porter model consists of five forces, specifically threat of new entries, negotiation of power of suppliers as well as buyers, substitution possibility and competition analysis is considered as a crucial framework of strategic planning for the business (Jaradat et al., 2013). Application of Porter model is a very helpful business tool in evaluating the company’s environment and deepening business understanding of its core competitive position that extends beyond the current competition threat. Abovementioned analytical methods were selected in order to fulfill the main objective of the research related to exploration of trends in tourism industry.

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that are specific for Sarajevo region and analysis of the possibilities of creating a novel tourist offer in the particular region specially customized to senior population and their customer preferences in regard to socio-demographic perspectives of international travel and tourism industry. Since the nature of analyzed business includes a comprehensive use of eco-smart and health-supporting solutions and technology, concepts of sustainability, efficacy and health are discussed. At the end of the paper, practical implications for future actions are highlighted and explained.

3. RESULTS

The following macro environmental influences that are specific for the potential eco-smart and health-oriented business operating in Sarajevo region were identified (shown below in Table 1.):

Table 1.: Identification of External Environmental Factors - Macro Environment

<table>
<thead>
<tr>
<th>Political and Legal Factors</th>
<th>Economic Factors:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Political climate/government stability</td>
<td>- Gross Domestic Product trends</td>
</tr>
<tr>
<td>- European Union integration process</td>
<td>- Inflation rate stability</td>
</tr>
<tr>
<td>- Tax administration policy-VAT</td>
<td>- Interest rate fluctuations</td>
</tr>
<tr>
<td>- Government spending for tourism</td>
<td>- Expenditures</td>
</tr>
<tr>
<td>- Present/future laws in tourism sector</td>
<td>- Unemployment rate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social and Cultural Factors</th>
<th>Technological Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Changes in lifestyles of tourists</td>
<td>- Use of Information technology in tourism industry such as computer reservation systems (CRS)</td>
</tr>
<tr>
<td>- Habit and behavior changes</td>
<td>- Technological advances enabling the efficient use of energy and sustainable development of tourism</td>
</tr>
<tr>
<td>- Changes in the use of disposable income</td>
<td></td>
</tr>
<tr>
<td>- Attitudes toward the job responsibilities and leisure time</td>
<td></td>
</tr>
<tr>
<td>- Educational level</td>
<td></td>
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</tbody>
</table>

Source: Authors’

Political and legal environment: Current political situation is relatively unstable resulting in insufficient number of foreign tourists. However, according to the official statistics the country’s tourism revenue in 2013 reached an all-time record and the growth of 18% is estimated for 2014. Correspondingly, there is a tendency towards the stabilization of political scene as well as the intention to open governmental institutions and agencies which will positively influence the image of the country and its international tourist perception. The harmonization of economic instruments and tourism policies regarding the European Union integration process, among other things, make tourism movements much easier. Laws and regulations control relations within the national economy and society in general, but also strengthen the international relations of Bosnia and Herzegovina, including the creation of conditions for a more open economy that is stable and systematic. When it comes to the tourism in
Sarajevo region, Federal Law on Tourism (Official Gazette 32/09) is the most relevant law which regulates the tourism industry, types of services offered, conditions and models of performing these activities, including entities which can be engaged.

**Economic environment:** According to the National Agency for Statistics (Kozic et al., 2014), GDP growth in the last year was 0.6% and 26,297 in millions of KM, while GDP per capita amounted to 6,862 KM. Also, GDP growth remains on a declining trend in most of the European Union countries as well as world-wide. But, at the same time we can expect that discretionary income will continue to go up at least when it comes to the foreign senior guests and that will have a direct repercussion on increasing the spending on tourism services. Namely, it is a myth that senior citizens have no disposable income, particularly in the developed countries (foreign tourists). Senior population has low fixed living costs, 82% of all seniors own their home outright and most of them own cars. The fact is that lower income does not mean lower available cash and for instance in the USA 40% of discretionary income at national level belongs to elderly people. Hence, the senior market is one of the fastest growing areas of tourism and this trend is evident in Bosnia and Herzegovina too, but mostly when it comes to foreign senior tourists. The importance of the senior citizen segment, in general, is determined by the process of aging, which is linked to improvements in the economic status and the health conditions of this group. They tend to be more active and travel more. Given that population aged 65+ is usually retired with pensions or social benefits, they have leisure time to devote to travelling at any time of the year. Furthermore, regarding the inflation, our country is very stable given that the long-term orientation is to keep the inflation under control, managed by the Central Bank Currency Board.

**Social and cultural environment:** This type of environment is particularly interesting and attractive to senior tourists. Namely, Sarajevo is the capital of Bosnia and Herzegovina. Sarajevo is the country’s administrative, economic, cultural, educational and sport center. For more than four centuries, Sarajevo has been the city of multiculturalism and the place where Catholics, Muslims, Jews and Orthodox live together. Sarajevo has a rich history ranging from the early Neolithic to medieval period, including impressive influences of the Ottomans and Austro-Hungarians on culture and arts. Sarajevo region also has envious natural heritage such as the second deepest canyon in the world (Rakitnica canyon), Olympic Mountains as well as thermal springs which are significant for medical tourism particularly when it comes to the senior tourism. Also, national cuisine and festivals such as Jazz Fest, Sarajevo Film Festival, MESS and many other should not be neglected in tourism potential analysis.

**Technological environment:** The use of IT-based solutions in tourism influenced the increase of quality of tourist travel and quality of visitations. More and more tourist destinations are available through detailed tourist information web systems. Unfortunately, in Bosnia and Herzegovina this type of environment, at least in tourism industry, is not sufficiently developed. After identifying relevant factors, the evaluation of their influence is performed with regard to two basic aspects: influence...
evaluation of identified factors by grading a threat from -5 to 0, and an opportunity from 0 to +5 and importance evaluation of business strategic factors by grading them from 0 to +10. The evaluation of identified factors for tourist market regarding company’s request is shown below (Table 2.).

Table 2.: Factor Influence and Importance Evaluation

<table>
<thead>
<tr>
<th>Environment</th>
<th>Factor influence</th>
<th>Factor importance</th>
<th>Opportunity (+); threat (-)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political/Legal (P)</td>
<td>-3</td>
<td>8</td>
<td>-24</td>
</tr>
<tr>
<td>Economic (E)</td>
<td>3</td>
<td>7</td>
<td>21</td>
</tr>
<tr>
<td>Social/Cultural (S)</td>
<td>2</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Technology (T)</td>
<td>2</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Total</td>
<td>-</td>
<td>-</td>
<td>17</td>
</tr>
</tbody>
</table>

Source: Authors’

From the positive value of threats and opportunities, it is clear that opportunities exceed threats, meaning that the business strategy for EMS introduction and senior guests focus represent good opportunities for hotel’s future. Taking into consideration that environmental factors are by nature complex and dynamic, we are not able to use the trend method for forecast. That is the reason why we applied the "planning scenario" option. In order to emphasize all relevant aspects of the particular industry, it is necessary to do Industry Sector Analysis for the potential business. The relevant industry is the hotel industry and tourism. Life cycle prism is shown below (Figure 1.).

Figure 1.: Industry Development Phase Representation through Life Cycle Prism

Source: Authors’

Generally, the relevant industry is in the beginning phase of adjustment. World Economic Forum publishes the Travel and Tourism Competitiveness Report annu-
ally and Bosnia and Herzegovina’s Travel and Tourism Competitiveness Index for the year of 2013 was 3.8 which gives the country a rank of 90 out of 140 countries with comparable data (Blanke et al., 2013). Further results present the long-term structural analysis of industry, its attractiveness and profitability using Porter model.

**Table 3.: Long-term structural analysis of industry using Porter model**

<table>
<thead>
<tr>
<th>Observed Porter model force</th>
<th>Results of analysis</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The threat of new entry</td>
<td>medium</td>
<td>Relatively high initial investments (makes high entry, but also exit barriers); Low brand loyalty and narrow location</td>
</tr>
<tr>
<td>Negotiation power of suppliers</td>
<td>low</td>
<td>Large number of potential suppliers</td>
</tr>
<tr>
<td>Negotiation power of buyers</td>
<td>high</td>
<td>Service replacement costs are very low; Tourists are very sensitive consumers (requiring good quality services)</td>
</tr>
<tr>
<td>Substitution possibility</td>
<td>low</td>
<td>No market segmentation or tourist offer tailored to the specific needs of a particular group, including elderly population</td>
</tr>
<tr>
<td>Competition degree</td>
<td>emphasized</td>
<td>There is a substantial competition in tourism industry, but there are no specific facilities</td>
</tr>
<tr>
<td>General conclusion</td>
<td>attractive industry</td>
<td>There is no single tourism offer based on energy-efficient and eco-smart facilities tailored to specific needs of elderly</td>
</tr>
</tbody>
</table>

*Source: Authors’*

In order to better understand the competition degree in tourism/travel industry and attractiveness of the particular economy segment in Sarajevo region, the available hotel offer was evaluated. Currently, in Sarajevo region there are 61 registered hotels operating in the tourism industry grouped into categories as follows: 3 five-stars hotels, 11 four-stars hotels, 28 three-stars hotels, 8 two-stars hotels, 3 one-stars hotels and 8 hotels without a category (but most of them are in the process of obtaining categorization). The majority of hotels fall under three-star category and their offer fulfills cost benefit balance of an average consumer in terms of condition and cleansings. However, none of 61 hotels that were evaluated does not have any type of service based on eco-smart and energy-efficient solutions or adapted for elderly guests.
3. DISCUSSION

Environmental influences refer to all physical, biological and chemical factors that have an impact on an individual, i.e. its health and behavior. Therefore, the estimate and control of all environmental factors as well as their contamination and protection, represents an important issue of mankind for decades regardless of the level of societal development and productiveness across the planet. These issues are put in the limelight of science with an emphasis on its current relevance and it is easy to come to conclusion that healthy environment is not abundant directly negatively influencing the living biological system, especially senior citizens (Stankovic, 1995). Directly in reference to these facts, the sustainable development theory attempts to reduce the level of negative influences of biological factors on persons’ physical, psychological and social well-being through the harmonization of social, economic and environmental factors (Vasovic et al., 2007). Given that health is the result of a mechanism of mutual adjustment of human beings and their environment, modern and urban lifestyle represents a direct stress for elderly citizens and their already slow physiological system failing to make an adequate adjustment.

For instance, inability of the interior environment to repeatedly establish a necessary balance with the fast changing exterior environment has resulted in a number of diseases emergence of which the most common are circulatory system diseases, locomotor diseases and other neuro-psychological, endocrine, metabolic and immune system diseases (Wigle, 2003; Wells et al., 2010). Out of total area of Sarajevo region, 65.43% is covered with forests (82,998.88 ha), which means a tremendous potential for the development of eco-smart tourism that can meet almost all physiological and social needs of elderly citizens. Human beings’ origin is in nature and they have never completely separated from it, so it is expected that third age persons, governed by their instincts, always opt for such locations with high natural potential as their vacation spots. The latest scientific research in cell physiology has proved that system repair mechanisms can only be initiated in natural conditions. It has also been confirmed that environment can increase or reduce stress (Figure 2.).
Therefore, stress caused by noise, which is part of a modern lifestyle, accelerates the production of stress proteins in elderly persons that block cells of the immune system causing the feeling of anxiety, depression, high blood pressure and muscle tension, which are starting point for the incidence of the aforementioned diseases. Stress is a big medical problem of the modern society and therefore it is extremely important to offer a stress-free environment during vacations, especially to elderly persons in order to maintain a normal functioning of physiological system with the possibility of activating intracellular reparation systems for the improvement of the overall human well-being, especially of senior population (Kaplan et al., 1989; Evans, 2001). Apart from forests, Sarajevo holds thermal springs. The most famous one is located in Ilidza municipality. These thermal springs are sulphuric waters rich with calcium, sodium, potassium and hydrocarbons. Hence, they are used for prevention and treatment of all diseases suffered by elderly persons such as rheumatism, neuralgia, anemia, skin, digestive system and urinary tract diseases. Sulphur, as the main ingredient in these waters, is very important for glucose metabolism. The lack of this chemical element in elderly persons leads to musculoskeletal disorders, obesity and metabolic syndrome. The latest scientific research has proved that one of the causes of Alzheimer’s disease is a significant reduction of the amount of sulphur in such patients when compared to healthy persons (Anderson, 2007).
4. CONCLUSION

Tourism represents a quiet dynamic industry which includes unique characteristics that can be observed as an essential segment of national economy in developed countries as well as developing countries such as Bosnia and Herzegovina. Travel industry contains all the phenomena and relationships covering interactions between tourists, suppliers and vendors of tourist services, national and local governmental bodies and host communities in the process of attracting and welcoming tourists at a particular destination (Hadiani et al., 2011). Performances and outcomes of these relationships in tourism industry considerably influence national economy results in the form of employment rate and its impact on economic and social development as well as environmental sustainability including protection of natural resources through creation of energy-efficient solutions. Tourism industry in Bosnia and Herzegovina with its capital in Sarajevo records a positive trend for all crucial indicators of growth in the last decade or so (Bidzan et al., 2015). These trends in tourism/travel industry can be a solid base for initiation of further economic and societal development by creating specific target group and customer segmentation in terms of tourist offer that would be specially tailored to elderly population due to socio-demographic characteristic of future senior citizens on the global level.

There is also a substantial space for additional use of its indisputable potential that involves extensive natural resources such as Olympic mountains Bjelasnica, Igman and Jahorina located only half an hour drive from the Sarajevo downtown, long and well-known heritage/tradition, exciting and restless history, favorable geographic location on the crossroads between eastern and western cultures, internationally popular events such as Sarajevo Film Festival, outstanding gastronomic offer at a reasonable price and the status of still unknown tourist destination for the majority of foreign tourists outside European continent. Setting of still water machines and installation of renewable energy system for electricity, ventilation and heat can have various positive effects increasing security, providing more healthy conditions, influencing life expectancy and counteracting the aging in elderly population. These practices can be observed as possible strategies of creating a unique hotel facility in Sarajevo region customized to needs of senior tourists. Strategic management tools have shown that there are business, socio-demographic, biological and psychological (health-related) rational for creating an eco-smart and energy-efficient tourist facility in Sarajevo that could become profitable in a short period of time.
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