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### THE IMPACT OF CHOSEN ECONOMIC INDICATORS ON TOURISM SUSTAINABILITY: CASE STUDY OF THE CZECH REPUBLIC AND NORWAY

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**Abstract.** In recent years, tourism businesses have had to face rapid changes brought about by modernisation, internationalisation, social changes, and the higher demands of tourists. These features have an impact on the current level of tourism services and determine the overall economic environment on the supply and demand side. To keep up with global and national competition and these new emerging processes, it is important for managers to discover and monitor how key global figures can have an impact on the future development of tourism units in the hopes to achieve further sustainability growth. Managers should adapt to the changing environment by using new methods and strategies that make tourism units sustainable for future generations. One of the main indicators measuring economic sustainability is gross domestic product, as it captures the market value of the measured services or goods in general. For this reason, it is worthwhile to determine what the interconnections with regard to gross domestic product and tourism variable are. Through this relationship, it is possible to evaluate the health of a certain economy of tourism that can serve as a viewpoint for the management of tourism businesses in a certain state. This research looks at the relationship between the chosen indicators from the tourism sectors of the Czech Republic and Norway. Its purpose is to identify the relationship between the chosen general economic indicators measuring tourism economic prosperity, such as overall gross domestic product for international travel expenditures within a 7-year period. The main aim of the research is to determine the relationship between the chosen indicators through comparison and trend analysis. The data will be examined in order to determine the relationship between the chosen variables, as well as the strength of the dependence of both variables. Based on these findings, further research may use gross domestic product as one of the crucial indicators for the measurement of economic sustainability with respect to its added value for tourism businesses and management.

**Keywords:** sustainability, economy, expenditures, gross domestic product, Czech Republic, Norway, tourism

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## 1. Introduction

Even from the beginnings of tourism, it is known that merchants travelled for business purposes with the aim of searching for financial security. Trade and business have been interconnected ever since. Business as a primary motive for travel has caused its spread, and nowadays trade is also an activity that promotes tourism in general. This viewpoint is based on the work of Gallega et al. (2011), who note that tourism is directly interconnected with trade. Especially in the business environment and business travels, there is much truth about the interconnection between trade causing tourism and tourism causing trade. The first option, again based on Gallega et al. (2011), resides in trade promoting tourism. It is clear that businessmen cause tourism to develop for various reasons. Firstly, business travellers not only consume goods and national products, but moreover

consume services such as accommodation, needs to exchange currencies, or must travel in order to arrive at planned meetings. Secondly, business travellers may require the same products that they are accustomed to in their home country or vice versa. This is the export vs. import benefit, which is connected with the second option that states that tourism promotes sales. Tourists visiting a country will be consumers of national products, souvenirs, etc. and through the sale of these items, will contribute to the economic growth of the country (Gallega et al., 2011).

In recent times, tourism has played a significant role not only with regard to trade, but mostly in the overall global economy compared to other industries. Its potential causes managers of all of the related economic activities of tourism to do their best to ensure the potential of its functioning. This makes tourism a very important source of revenue for the economy. In the Czech Republic, the direct contribution of Travel and Tourism to GDP represented 2.6% of GDP in 2014 and in Norway 2.9% of total GDP in the same year, and it is forecasted to grow (WTTC, 2015a, 2015b). The primary objective of managers in the various tourism sectors is definitely to make and subsequently maximise profit and to generate business. If this is not fulfilled, any other aims become, at that point, not relevant for these managers. For this reason, tourism businesses should be aware of the need to establish a sustainable measurement system consisting of appropriate economic sustainable indicators in order to achieve this profit maximisation. By taking this step, progress can be seen, monitored, and assessed accordingly. Therefore, they should look for indicators that have an impact on the tourism sector, on their business, and require faster decision-making in the long term. Given the growing trend in the GDP of tourism and also the general GDP of all sectors, it is necessary to deal precisely with the potential of this variable for further decision-making.

## 2. Literature review

### *Tourism's need for economic sustainability measurement*

From a theoretical perspective, measuring sustainability allows managers to think more strategically about their businesses because it represents “one way to introduce long-term economic prospects into our assessment of socioeconomic well-being” (Fleurbaey and Blanchet, 2013). The connection of two relatively vague terms such as sustainability and measurement could raise the question whether its interpretation and findings can be taken into real practice throughout the whole tourism industry. The importance of sustainability in tourism and its measurement is highlighted by many authors throughout the literature. Due to the fact that the term sustainability has a vague character and its objectivity has decreased due to its normative character (Moldan, 2003), its measurement is thus necessary for the possibility of its practical application. This is confirmed, for example, by Daly (1996), Bossel (1999), Vojnovic and Knezevic (2013), Rio & Nunes (2012), and Oyola et al. (2012). In addition to these sources, governmental bodies such as the European Union (2013) and World Tourism Organisation (2004) have issued a document describing sustainability indicators and their measurement in all three pillars – namely economic, environmental, and social.

The measurement of sustainability is not an easy task even for tourism providers and managers. To quantify and measure performance in each sustainability pillar, it requires having an indicator system and knowing what each dimension is characterised and influenced by. Sustainability dimensions are described as follows:

- Economic sustainability: measures financial health and the impact of the business on stakeholders and society.
- Social sustainability: social criteria such as employment, education, health and safety, or trainings should be done in such way to benefit the business and its participants.
- Environmental: ensure that environmental issues such as energy efficiency, water, emissions, waste management, and biodiversity are consumed in a way that benefits business and protects the environment at the same time. (Brockett and Rezaee, 2012):

Many tourism units, and specifically hotel businesses, mostly focus on environmental sustainability preservation. Moreover, this “green” period serves as a good soil for its growth because it has become very popular to behave in accordance with “green” rules. Gardetti and Torres (2016) support this by saying that sustainability is nowadays “frequently reduced by associating it with environment”. On the one hand, environmental sustain-

ability can bring economic savings in terms of water, electricity, etc., but on the other hand economic sustainability should be put above social and environmental sustainability in order to make hotels and other tourism sectors such as transport, food and beverage, or tourism agencies viable. For this reason, economic performance is and should be taken as the most important of all three pillars (Gardetti and Torres, 2016).

The obvious reasons for incorporating economic sustainability into the decision-making process for managers in tourism facilities resides in its overall economic impact on the national economies. In practice, this resides in the decreased “use of resources with potentially less adverse social and environmental impacts from their use” (Dwyer, L. and Spurr, L., n.d., p.1).

### ***Gross domestic product (GDP) as a main indicator of economic measurement in tourism sustainability***

Generally, the economic sustainability indicators that are relevant for managers and monitor their financial health include “return on assets, return on equity, market value, growth, quality and quantity of earnings, research and development and market share” (Gardetti and Torres, 2016). These indicators measure concrete activity in a certain tourism facility regardless of the negative effects occurring on the economic stage in which these businesses operate. At this point, businesses are a part of the economic cycle and therefore must realise that they do not function in isolation from their economic surroundings, and must concentrate on general economic prosperity above all. Generally speaking, if tourism can lead to growth of gross domestic product, increased employment, or the exchange of currency, all of these indicators can obviously cause a boomerang effect in the form of contraction or a boom for tourism facilities – and their profits. For this reason, concentrating on indicators such as economic value added or return on equity measured within a concrete tourism facility is not enough, and businesses should be advised to concentrate on long-term economic indicators, ups and downs in the economic cycle, and periodically review the economic situation.

Focusing primarily on gross domestic product, it was one of the first measurement indicators assessing the economic health and sustainability of tourism (Daly, 1996; Lawn, 2006); however, some authors believe that it does not reflect all three pillars and therefore it should not be taken as a complex measurement method (Fleurbaey, M. and Blanchet, 2013; Bossel, 1999; Nováček, 2010; Jurigová, 2016).

Opponents to this view include Ki-Moon or Helen Clark, who believe that while looking at a sustainability and non-economic factors such as happiness or equity, GDP should not be the one and only indicator but there should be a new set of indicators or new sustainable development index that will complement GDP (United Nations Development Programme, 2012). With this in mind, sustainable development should include not only GDP as a representative of the economic dimension, but it should “integrate financial/economic analysis with environmental and socio-cultural analysis” and these three dimensions should work as an integrated framework for long-term decision-making (Hall, Gössling, Scott, 2015, p. 78).

### ***Influence of GDP on tourism development***

In general terms, GDP as a macroeconomic indicator is one of the most used indicators for describing a state’s well-being. One of the first studies that described GDP as an indicator of economic growth was undertaken by Ghali (1976). As he claimed, the development of tourism is a key factor in the strategic planning of further national economic growth.

Balcilar, M., R. van Eyden, and R. Inglesi-Lotz (2014) found that in South Africa, the relationship between tourism and GDP with the usage of the Granger causality methodology is positive. More concretely, tourism receipts were taken as a positive prediction for GDP in the period between 1960 and 2011, except in the years of 1985 and 1990. On the contrary, a different approach and research in South Africa regarding economic growth and tourism using the same Granger analysis is seen in the work of O. Akinboade or L. Braimoh (2009), who see “unidirectional causality” between tourism earnings and GDP. Similarly, J. Ridderstaat, R. Croes, and P. Nijkamp (2014) believe that the relationship is reciprocal, which means that tourist arrivals also suffer in the business cycle during times of recession or downturn and that this further influences tourism results, respectively.

A similar study provided by Li and Chuan (2012) on the relationship between economic growth, tourism receipts, and education based on Granger causality revealed a bidirectional relationship. Based on this, it is suggested that economic growth can be concretely supported in Malaysia by promoting tourism receipts and education. The analysis of Lee and Chang (2008) showed that “unidirectional causality relationships exist from tourism growth to economic development in OECD countries, but bidirectional causality relationships are found between the two variables in non OECD countries”. With this in mind, the authors advise a concentration on the relationship of tourism and economic growth from a long-term perspective.

All of the previously mentioned studies should also bear in mind the differences occurring during the various phases of business cycle during the monitored period. The impacts of phases in the economic cycle such as booms, downturns, or recessions on the demand for tourism were also studied by several authors (Crouch, 1996; Gouveia and Rodrigues, 2005; Song and Li, 2008).

However, the question remains whether tourism influences GDP in such a way that the economy could profit from this relationship, or whether the economic cycle in its different phases influences tourism and its economic outputs. The reciprocity and a clear interconnection in this relationship is confirmed by Rifai, the UNWTO Secretary General who believes that “tourism has been instrumental in supporting the economic recovery of many countries” with sustainability being a core of the whole process (UNWTO, 2015). In the end it is necessary to remind that the positive effects of tourism include tourism revenues, value creation and multiplier effect, its contribution to foreign exchange earnings and other non-economic (environmental, social and cultural) effects. The negative effects of tourism are seen in its uncoordinated development, price increases, crime, etc (Jurigová, Lencséssová, 2015).

### 3. Methodology

The aim of this research is to compare and discover the changes in international expenditures in the tourism sector and to determine its percentage of overall GDP in two tourism economies – in the Czech Republic and Norway. In other terms, it should reveal whether it is essential for managers and stakeholders to include GDP in their strategic planning and whether it is essential to look over macroeconomic data while managing tourism facilities. The research is conducted in two states, the Czech Republic and Norway. Secondary data for the research were collected from OECD statistics in a 7-year period from 2008 to 2014.

The statistical research of Cárdenas-García, Sánchez-Rivero, and Pulido-Fernandéz (2015) confirmed that Norway had the highest value of the synthetic index of economic development in 1991 from all 72 ranked countries, which points to a positive relationship between tourism growth and economic development. According to this research, Norway achieved first place followed by Sweden and France, with the Czech Republic ranked in the 39th position. Therefore, Norway was taken as a comparison basis as the data of Norway were compared with the Czech Republic.

Two variables were compared, namely gross domestic product and international travel expenditures. Gross domestic product (GDP) is characterised by the methodology of OECD as “the expenditure on final goods and services minus imports: final consumption expenditures, gross capital formation, and exports less imports: (OECD, 2016a, p.14; OECD, 2016). GDP in market prices is used in this research.

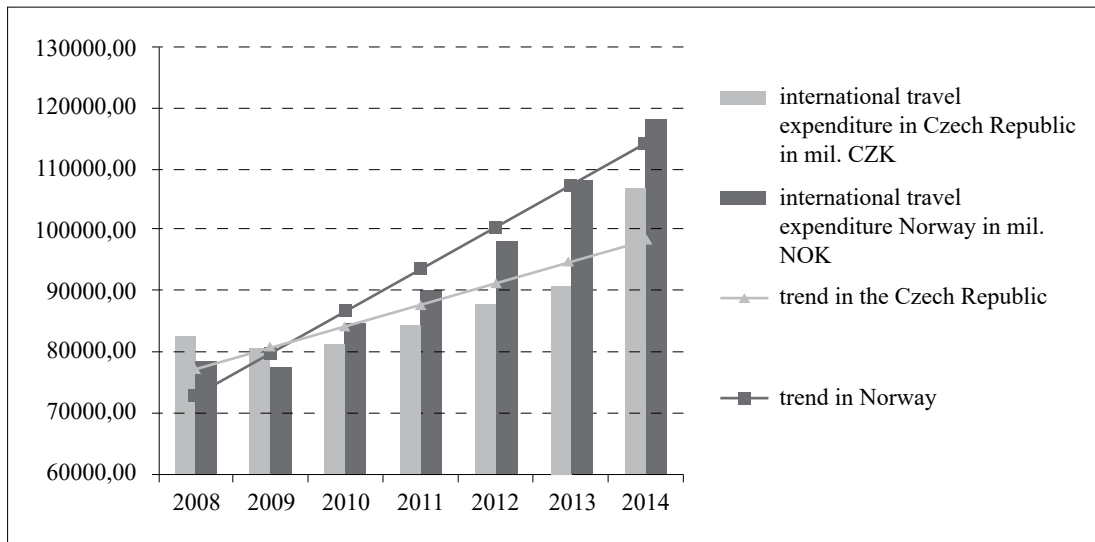
Another variable, international travel expenditures, “covers goods and services for own use or to give away acquired from other economies by residents during visits to these other economies” (OECD, 2016, p.14). In other words, these are the expenditures of international outbound visitors that are spent in other countries. Total travel expenditures could not be taken into consideration because these were not measured throughout the entire 7-year period in Norway, and thus the trends would be difficult to capture.

Secondary statistical data are in both countries stated in their own currency as exchange rate differences were not counted. While counting with GDP (see Figure 3), the USD currency was adapted to the Czech and Norwegian currencies in order to capture these relationships.

These data were chosen because they traditionally highlight the economic situation regarding tourism and overall prosperity in the state and can serve as a starting point for examining the state's overall prosperity.

#### 4. Results and findings

The economic importance of travel in both countries was conducted by a comparison of international travel expenditures and by looking at the trends for each country. It has confirmed that the importance of tourism in both countries has been growing. Firstly, the trends in international travel expenditures in the Czech Republic and in Norway were compared. The comparison revealed the following results; see Figure 1.

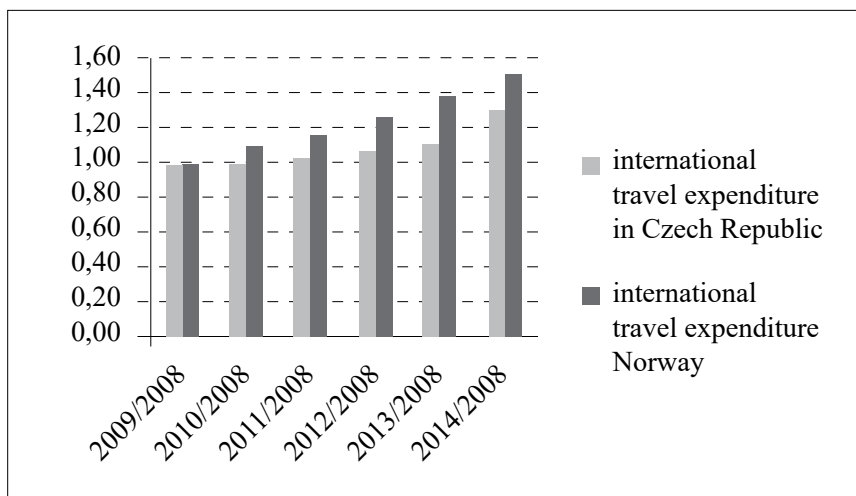


**Fig. 1.** Trends in international travel expenditures in Norway and in the Czech Republic

*Source:* (own processing based on OECD Stat., 2008-2014 and OECD, 2016a)

It is evident that the growth of international travel expenditures in Norway is quicker than in the Czech Republic, even though both of the countries exhibit a growing tendency. Although both countries demonstrate a positive trend, there is one point to note during the years of recession. The Czech Republic's recovery from recession period in question was slower and developed gradually, whereas in Norway the trend was quicker, which corresponds to previously-mentioned comments. Moreover, Norway was ranked as the state with the highest standard of living for its citizens based on the Human Development Index measured by United Nations (United Nations Development Programme, 2014). With this in mind, Norwegian tourists are used to high living standards, they travel more, require a higher standard of tourism services, and their overall approach differs based on their mentality. In addition to the previously mentioned behaviour of Norwegian tourists, the growth and expansion of international expenditures is therefore quicker compared to the Czech Republic

The previously mentioned recession during the economic crisis of 2008 and 2009 had an impact on changes in international arrivals when compared to other years. The following Figure 2 shows these changes compared to 2008.

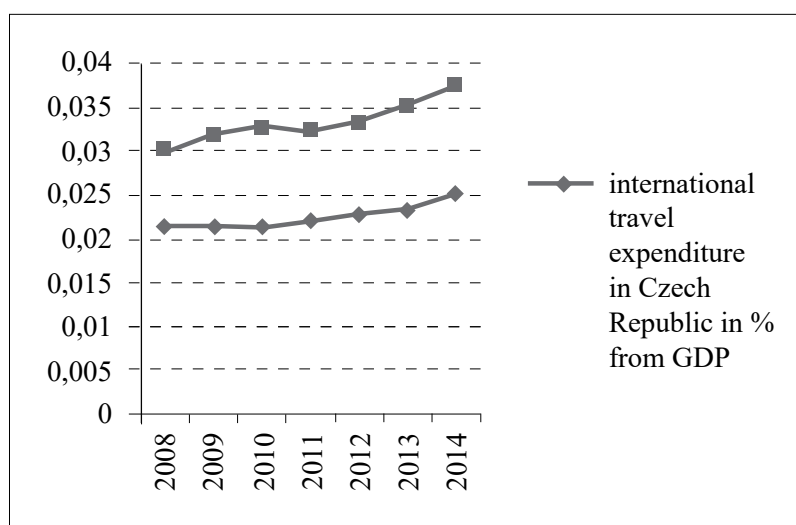


**Fig 2.** Changes in international travel expenditures for 2008 in Norway and the Czech Republic

*Source:* own processing based on OECD Stat., 2008-2014 and OECD, 2016a

The figure shows a gradual increase in international tourism expenditures in both countries; however, the trend behaves slightly differently for the Czech Republic. The recovery from the recession is most visible in 2013 and 2014 in the Czech Republic. Before then, expenditures remained stable and increased only slightly. This is not the case for Norway. The Norwegian recovery had already begun in 2009 and its notable increase is also seen in Figure 2. As proof, in Norway international travel expenditures have increased by 51% from 2008, whereas in the Czech Republic this increase only amounted to 29%. It can be expected that expenditures will grow with the capturing of similar economic conditions. Although for Czech tourists, their behaviour and attitudes are similar to those tourists from the Visegrad Four countries, there is still a room for taking inspiration from other developed tourism destinations.

When focusing on international travel expenditures and its deeper analysis, it can be seen that Norwegian and Czech tourism managers should pay more attention to monitoring economic cycles and the overall situation while examining the causalities. In order to see whether a deeper connection between national economy and international travel expenditures exists, Figure 3 describes the percentage of international travel expenditures from the overall GDP of Norway and the Czech Republic.



**Fig. 3.** International travel expenditures in % of GDP for Norway and the Czech Republic

*Source:* own processing based on OECD Stat., 2008-2014 and OECD, 2016a

In Norway, there is then a rapid increase when comparing 2008 to 2014. This responds to the previously mentioned faster increase in expenditures. Based on this figure, it can be assumed that tourism in this case did not affect GDP because it follows a similar trend. The decrease is caused by industries other than tourism. On the contrary, the Czech Republic's percentage share of travel expenditures on GDP is stable in critical years, but it grows only slowly. This observation confirms the fact that favourable economic conditions at the end of 2013 and 2014 in the Czech Republic influenced tourist behaviour, encouraging them to spend more money for travelling abroad. This may be adapted for Norwegian tourists accordingly. Nowadays, a huge area has opened up to services involving various activities from earlier times as well as new opportunities for services that arise every day, which also can be applied to the field of tourism in both countries. (Tučková, Tuček, 2013)

## Conclusions

This research was aimed at comparing two states with different approaches to tourism, Norway and the Czech Republic, in order to find out the similarities, differences, and connections with regard to overall gross domestic product and international travel expenditures. The research determined the following conclusions. Norway, as the country with the highest standard of living standard, has higher tourism expenditures for international journeys since tourists look for higher-quality services based on their mentality. Therefore, the curve of trend portrayed a sustained, more rapid upward trend than did the curve for the Czech Republic. The 2008 crisis hit both countries, causing decreases in expenditures as tourists were forced to limit their financial means and to prioritize their other basic needs before travel expenditures. Interestingly, the recovery from the crisis did not progress in a similar fashion. International travel expenditures began to increase more fully in 2013 and 2014 for the Czech Republic, while in Norway the recovery was already quicker in 2009. Therefore, this means that tourism managers and authorities should focus not only on classic economic data such as economic value added, return on equity, or other indicators, but that they should follow and predict the overall economic situation in the state and in the world, too. This is confirmed by the Figure 3, which described the percentage of international travel expenditures from overall GDP in each country. If GDP has experienced a tendency for growth, tourist expenditures for international journeys will adapt accordingly. The findings from the above-mentioned analysis are relevant for tourism managers and facilities because they can use the positive similarities between GDP and international travel expenditures for future sustainability measurements. One limit of this research resides in lacking same-source data in both countries for further comparison of additional tourism indicators in both states. Therefore, another limit can be seen in the non-objectivity of the research details, as it deals with only two variables. This leads us directly to the question of whether GDP would have an influence on other tourism indicators and whether these would also succumb to business cycles. Further research can support these findings by using other indicators and other methods such as correlation analysis to discover the causality.

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