The Effects of Novel Corona Virus (Covid-19) in the Tourism Industry in India

Pravin Kumar Patel*
PhD Research Scholar,
Madhyanchal Professional University Bhopal,
India.

India.

Dr. Shivali Kharoliwal Professor-University of Kota, India. Dr. Prashant Khemariya Medical Scientist, Malaysia.

Dr. Jaya Sharma

Professor

Madhyanchal Professional University Bhopal,

Abstract:- The purpose of this paper work is to examine the extent to which an epidemic of 2020 such as Covid-19 can affect the global tourism industry and perform estimates of the destruction to world tourism. The statistical data from the renowned and trustworthy data sources have been collected to realize the effect of the Corona Virus on the world Tourism industry. China where the epidemic started, but also India, where fresh cases are continuously being reported, both is no longer tourist destinations, till May 14 2020. Potential tourists tend to reschedule or stop their plans for a terminus that is plagued by a pandemic. Because of pandemics, tourists cancel their travels avoiding suspicious places and individuals. Such categories of pandemics disturb straight industries such as tourism and retail service sector. In 2019, a total of 29, 28,303 tourist arrived on e-Tourist Visa. The economic consequences of this outbreak will be serious and they will cause harms not only to the tourist destinations with an important concentration of cases but also at a world-wide level. A comparable case was the outbreak of SARS in 2002. Tourism is presently one of the greatest pretentious segments and the World Tourism Organization has studied its 2020 forecast for international arrivals and receipts, though it highlights that such predictions are likely to be further revised. The United Nations dedicated agency for tourism assumes that international tourist arrivals will be downcast by 20% to 30% in 2020 when compared with 2019 figures.

Keywords- Corona Virus, Covid-19, tourism Industry in India.

$INTRODUCTION^{[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19]}\\$

The coronavirus outbreak has paralysed the tourism business, leaving travellers scrambling to return home and devastating economies that are largely dependent on tourism. The Novel Corona Virus (Covid-19) previous identified only as the Wuhan virus, expanded to nearer countries as south Korea, Japan, Italy, Iran and finally spreading its routes to India. Till mid of May the spread of the virus spans 185 countries. According to WTTC (World Travel & Tourism Council), India categorized as 3rd position among 185 countries in terms of travel & tourism's total contribution to GDP in 2018. India was ranked 34th in the Travel & Tourism Competitiveness Report 2019 published by the World Economic Forum.

TOURISM IN INDIA [2, 3, 8, 11,]

The Indian tourism and hospitality industry have occurred as one of the crucial drivers of development among the services sector in India. Tourism in India has noteworthy potential seeing the rich cultural and historical heritage, variety in ecology, terrains and places of natural beauty spread crossways the country. Tourism is also a potentially great employment generator besides being a significant source of foreign exchange for the country. In 2019, FEEs were US\$ 29.96 billion registering a growth of 4.8 % year-on-year and reached US\$ 5.40 billion during January-February 2020.

MARKET SIZE $^{[3, 712, 14, 16, 20, 21]}$

India is the most digitally advanced traveller nation in terms of digital tools being used for planning, booking and experiencing a journey, India's rising middle class and increasing disposable incomes has continued to support the growth of domestic and outbound tourism. Throughout 2019, foreign tourist arrivals (FTAs) in India stood at 10.89 million, achieving a growth rate of 3.2 % year-on-year. During January-February 2020, Foreign Tourist Arrivals (FTAs) were 21, 33,782. In 2019, a total of 29, 28,303 tourist arrived on e-Tourist Visa registering a growth of 23.6 per cent. As of 2019, 4.2 crore jobs were created in the tourism sector in India which was 8.1 % of total employment in the country. The number is predicting to rise by 2% annum to 52.3 million jobs by 2028. International hotel chains are increasing their presence in the country, as it will account for around 47 % share in the Tourism & Hospitality sector of India by 2020 & 50% by 2022.

SCENARIO OF COVID-19 $^{[1, 2, 7, 11, 13, 14, 20, 22, 23]}$

The first case of Covid-19 in India was reported on 30 January 2020 originating from China. After the World War Two, the outbreak of Covid-19 has had a detrimental effect on global healthcare and economy systems with a ripple effect on every aspect of human life as we know it. In other words we can say that the Covid-19 global pandemic has led to one of the largest global crises since the Second

similar dated previous year (Figure 2). Asia Pacific inbound arrivals are expected to decline 42% in 2020, with a loss of 148 million visitors compared to 2019. Domestic city visitor arrivals are forecast to decline 28% in 2020, a loss of 331 million visitors. On average, domestic tourism accounts for almost 80% of entire visitor arrivals to cities in Asia Pacific, which will help facilitate the recovery of city tourism as restrictions are likely to be lifted for domestic travel earlier than for international travel. Not only in Asia, the European Union (EU) has acted quickly to help the sector, for instance, by offering financial support to businesses, among them numerous small and mediumsized enterprises. Considering the evolving nature of the situation, it is too early to estimate the full impact of Covid-19 on global tourism.

World War. World Health Organization (WHO) declared the Covid-19 outbreak as a global disaster. According to worldometer data till May 14 2020 Coronavirus Cases were 4,452,820 and total deaths were 298,740 reported (Figure 1). In a response to 'flatten the curve', governments of every single nations have enforced border shutdowns, travel restrictions and quarantine in their countries which constitute the world's largest economies, sparking fears of an impending economic crisis and recession. The primary object of present study is to understand and elucidate the outcome of Covid-19 on the truism industries. Due to Covid 19 huge number of cancellation of travel plans by both foreign and local tourists, there has been a drop in both inbound and outbound tourism of about 67% and 52% respectively since January to February as compared to the

Distribution of cases

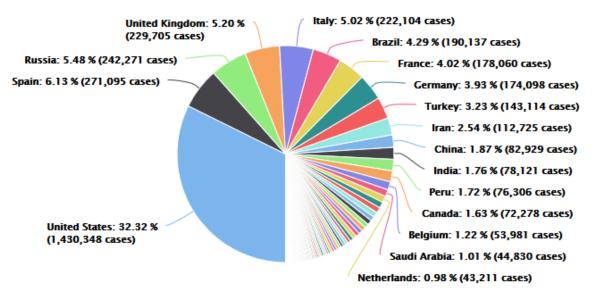


Figure 1 Countries coronavirus cases distribution²



Figure 2 Inbound Tourist in India for last 5 years³.

OBJECTIVES OF THE STUDY

The Indian and world tourism industry is seen to be entering into a great crisis which is also establishing a stock market crash in all the segments. India's and world's tourism industry is most affected as the visitors are not allowed to visit any county. The hotels, airlines as well as the cruise operations were stationary. This is leading to the development of impact on the India's GDP as the virus was not stopped from spreading. The Covid-19 is raising a global health alarm which is establishing the healthcare instability as well as impacting the economic breakdown of the activities. The objective of this work is to measure the impact of the occurrence of corona virus on the tourism industry in India and globally.

MATERIALS AND METHOD

This research work has adopted a secondary research methodology and thus the steps to perform secondary research have been strictly followed. The first step of secondary research is to develop a research question on which the investigation study will be developed. Here, the research question is - "what are the effects of emerging coronavirus in the tourism industry in India and Globe". The second step of this research methodology is to detect the secondary data set. Subsequently, the 3rd step is evaluation of the secondary data set and the 4th step is to prepare and evaluate the secondary data to conclude. For conducting secondary research mainly the researchers perform literature reviews which include textbook reviews. encyclopaedia, and journal article reviews. Besides this, news articles and web pages are also considered for the secondary data for the research study. For the undertaken research on the impact of the coronavirus on the Indian tourism industry various published academic journals, government documents, historical records as well as statistical databases are reviewed that support in gathering the required data for the study.

HOSPITALITY, TOURISM AND AVIATION [22, 23, 24, 25, 26, 27, 28, 29, 30]

The hospitality and travel industry have possibly been most hard-hit, with hourly workers facing impending devastating hardships. Marriott International with approximately 174,000 employees is poised to place tens of thousands of workers on furlough. Hilton Worldwide has also notified lenders on 5th March 2020 borrowing a precautionary \$1.75 billion under a revolving loan to preserve money and to maintain flexibility "in light of uncertainty in the global markets".

Hotel industry income per available room in the United States fell 11.6% for the week ending 7th March 2020, whilst in China occupancy rates fell 89% by the end of January 2020. Other United States hotel companies are seeking approximately \$150 billion in direct aid for employees due to an unprecedented fall in demand, along with an estimated \$1.5 billion loss since mid-February. MGM Resorts International has also announced a temporary suspension in operation at its Las Vegas properties, with casino operations closing on 16th March, followed by hotel operations. Since 1st March 2020, hotel occupancy in Germany decreased by over 36%. Italian

cities including Rome have been inadvertently affected with a current occupancy rate of 6%, whilst London remains the most stable with an occupancy rate of approximately 47%. Inclusive, the Covid-19 crises has led to international distortions for the hospitality industry, and significant slumps for the European hotel

1. The EU tourism industry

The EU tourism industry, which employs nearly 13 million individuals, is projected to be losing around €1 billion in revenue each month as a result of the outbreak of Covid-19. In several otherwise popular tourist destinations, hotels have been deserted and restaurants, bars, tourist attractions, theme parks and museums shut. Trade fairs, congresses and cultural events have been cancelled or postponed. Sporting events, such as the Euro 2020 football championship and the Olympic Games, have been postponed until 2021. Ski resorts have ended the winter season early. Major cruise companies have halted operations; cruise ships have been stranded at sea, as more and more ports have temporarily refused them entry. Many countries have reintroduced border controls or banned certain travellers from entering their territory, leaving them struggling to return home. The situation is particularly difficult in several EU countries that are key tourist destinations, such as Italy (Figure 3), Spain and France. According to estimates by the Italian Tourism Federation, Assoturismo, Italy stands to lose around 60 % of its tourists this year.

2. United Nations

As per the World Tourism Organisation (UNWTO), millions of jobs in the global tourism industry could be lost due to the Covid-19 pandemic, which has impacted travel like no other event in history and caused 96 per cent of all worldwide destinations to introduce restrictions in response to the outbreak. Over recent years, as the United Nations specialised agency for tourism, UNWTO has been regularly monitoring travel facilitation and observing a continuous trend towards more openness. "According to some researches for the new report, as of April 6, 96% of all worldwide destinations has introduced travel restrictions in response to the pandemic. Around 90 destinations have completely or partially closed their borders to tourists, while a further 44 are closed to certain tourists depending on country of origin," it said.

3. Asia

Vietnam received approximately 1.45 million Chinese visitors in the first quarter of 2019, dropping by 644,000 in January of 2020. It is estimated that Vietnam's tourist sector will suffer a \$5 billion loss should the Covid-19 pandemic extend into the second quarter of 2020. Moreover, the Philippines are projecting a 0.3-0.7% slowdown in the country's full year GDP.

HVS India and South Asia, a global consulting firm for hospitality, has released a report, Covid-19: Impact on the Indian Hotels Sector, that takes account of how the virus has affected the travel and tourism industry, and what can be done to restore it. IBEF has predicted new form of tourism in 2020 with few special add-on concepts but due to Covid-19 all is messed up. Figure 3 is showing some Advancement in Tourism.



Figure- 3 Showing panning of Indian tourism industry by India Brand Equity Foundation³

Currently, inbound tourism has come to a halt with India under lockdown, the imposition of Section 144, suspension of visas and global advisories against travel. As of now, there are barely any bookings being made for the future, and the current ones all stand cancelled. In this scenario, the report alludes; there is limited scope for quick revival, but for a slow and steady growth instead. There is little chance of an influx of foreign tourists, and most bookings for October- March—done in the summer—have dwindled. With deteriorating numbers since February, the report

predicts that the latter half of 2020 will be the worst hit. The key to reviving such a market after the virus is contained; of course it would be an increase in domestic travel. Airlines and hotels, with aid from the government, will have to come up with quick and efficient strategies to deliver quality to their returning customers. Figure is 4 showing share of India in World and Asian Tourist industries for last 5 years and Figure 5 is showing Tourist visited India's airports for last year's 2019.

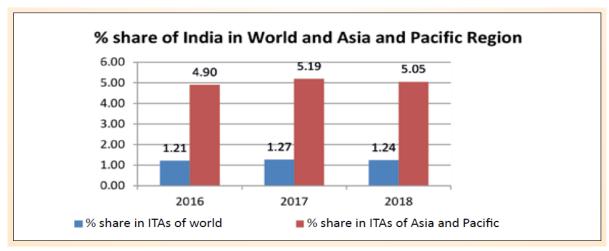


Figure 4 % Share of India in World and Asian Tourist industries for last 5 years³

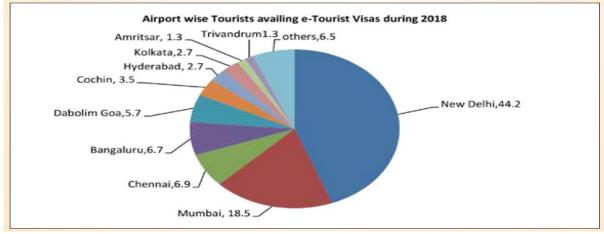
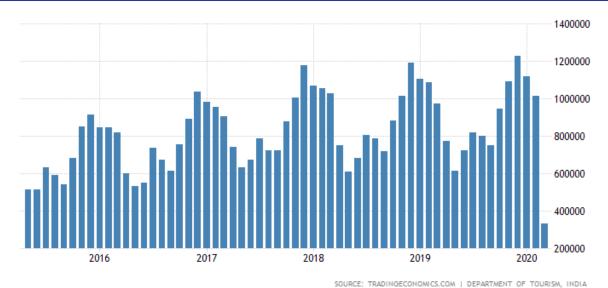


Figure 5 Tourist visited India's airports for last year's 2019³



SOURCE. TRADINGECONOMICS.COM | DEPARTMENT OF TOURISM, INDI

Figure 6 showing loss of Tourists in India in 2020 compare to last 5 years.

AVIATION[18,20,21,25,29,0,31,32,33,34,35,36,37,38,39]

Aviation is amongst the worst affected sector amidst the Covid-19 crisis that has taken the scale of a Pandemic. According to the International Air Transport Association, airlines globally can lose in passenger revenues of up to US\$ 113 billion due to this crisis. Airfares have also come under pressure due to nearly 30% drop in booking. Domestic traffic growth is also gradually being affected with domestic travellers postponing or cancelling their travel plans. Some companies have reported more than 30% drop in domestic travel

On this summer compared with last year. Airfare in the popular domestic routes has been reduced by 20-25% and airfares are expected to remain subdued for the summer season as well. According to the data available with the Ministry of Civil Aviation, nearly 585 international flights have been cancelled to-and-from India between February 1 and March 6 because of the outbreak of coronavirus. Cash reserves of airline companies are running low and many are almost at the brink of bankruptcy. Moreover, the crisis could lead to loss of many jobs. Already, some airlines have asked many of their staff/ employees to go on leave without pay. The airline industry needs an urgent bailout from the Government. Figure 6 showing loss of Tourists in India in 2020 compare to last 5 years.

IMPACT OF CORONAVIRUS PANDEMIC ON TOURISM & HOSPITALITY SECTOR IN INDIA [8, 22, 37, 40, 41, 42, 43, 44]

1. As per the report travel and tourism alone account for 9.2% of India's GDP (in 2018). The tourism division produced 26.7 million employments in year of 2018. The cascading effect of the coronavirus has been found to cripple the Indian tourism and hospitality industry at a surprising pace. According to Ministry of Civil Aviation, India is witnessing a 25% to 30% drop in inbound international visitors to the country in the backdrop of novel coronavirus suspicions.

- 2. The newly published figures by Ministry of Tourism, Government of India has also corroborated the similar concern as the Foreign Tourist Arrivals (FTA) has been found to be downcast by about 67% yearly in the January-March quarter, while local tourists notched a much lower figure by about 40%. FTA in February, 2020 has dropped by 9.3% month-onmonth and 7% year-on-year, according to government data. In February 2020, there were 10.15 lakh FTAs, against 10.87 lakh in February 2019 and 11.18 lakh in January 2020. The situation is getting uglier as India has announced suspension of all tourist visas till April 15 in a bid to contain the spread of the virus.
- 3. The Covid-19 outbreak has also started showing its impact on the domestic tourism sector and summer bookings to leisure destinations like Rajasthan and the hills. Summer travel is the peak travel period in India. Considering that most domestic travellers book their flight tickets 2-3 weeks before the travel date, the travel companies saw a more than 30% drop in domestic travel this summer compared with last year. Maximum impacted summer destinations are Leh, Guwahati, Coimbatore, Srinagar and Amritsar where more than 40% drop has been recorded. This is after airline fare drop by 20% for domestic routes.
- 4. There has been a reduction in the number of domestic travellers as people with business purpose or emergency requirements were only travelling. The number of visitors who visited the Statue of Unity in Gujarat dropped by over 38 per cent from January to February, and the revenue collected fell approximately ₹5 crore. The Archaeological Survey of India (ASI) has 3,691 sites registered with it, of which 38 are world heritage sites. As per information provided by the ASI, the total revenue from ticketed monuments was ₹247.89 crore in FY18, ₹302.34 in FY19 and

₹277.78 crore in FY20 (April-January). If the scenario fails to change by May, which is when domestic travel is at its peak because of the summer vacations, employment may then become a concern.

- Due to Corona virus outbreak, the industry has seen a flurry of international and domestic cancellations. There has been a reduction in the number of domestic travellers as people with business purpose or emergency requirements are only travelling. The corona virus scare has abruptly cut short the charter tourism season in Goa midway with visas for international travellers getting suspended from March 13 midnight onwards. Now, empty charters will arrive to take back the tourists to their destinations in the days to come. During the last tourist season, 250 chartered flights had arrived from different countries, including Russia and the UK. The collapse of travel firm Thomas Cook in the UK last year had severely affected chartered flights to Goa.
- The hospitality sector in totality is also bearing the brunt of reduced travel. Hospitality companies have seen a 50% drop in bookings within India between March 2 and 9. People are postponing booking plans in large numbers. According to Edelweiss Securities, both occupancies and tariffs would be impacted in March 2020 and the April-June 2020 quarter. While domestic tourism might see an improvement on limited outbound travel, the recent cases in India would limit that opportunity as well. Some popular domestic routes had seen a 20-25% decrease in last-minute airfares. Airlines are also refraining from increasing prices for the summer season in order to pre-empt weakening of demand on the domestic side.

SHORT-TERM MEASURE [3, 5, 18, 32, 36, 42, 45, 46, 47]

The short-term measures chart out immediate actions required to be taken to pull out the sector from financial quicksand. To some extent, these measures are meant to rescue the sector from bankruptcy and used primarily for the purpose of initial damage control.

Maximum of the tourism companies afflicted by Coronavirus Pandemic are now anxiously looking for interim relief to pay EMIs, instalments, taxes, and salaries to employees for at least six (6) months. The Reserve Bank of India (RBI) already announced that all banks and NBFCs had been permitted to allow a moratorium of 3 months on repayment of term loans outstanding on March 1, 2020. The loan EMI payments will restart only once the moratorium time period of 3 months expires. Given the severity of damage, ICC thinks that Government should extend the time period to six (6) months.

1. ICC also suggests six (6) to nine (9) months' moratorium on all principal and interest payments on loans and overdrafts, besides deferment of advance tax payments.

- 2. ICC would like to recommend a complete GST holiday for tourism, travel and hospitality industry for the next 12 months till the time the recovery happens.
- 3. The government announced Rs 1.7 lakh crore relief package aimed at providing a safety net for those hit the hardest by the Covid-19 lockdown. Business fraternity thinks that this amount is largely insufficient and Government should consider to increase the relief package to at least Rs. 2.5 Lakh crore to ride over the Covid-19 crisis
- 4. Amid growing signs of trouble, ICC solicits RBI to take steps to ease the working capital crunch faced by the tourism industry in the wake of corona virus outbreak. In this regard, ICC suggests the apex bank to facilitate faster clearance of banking credit related to Travel & Hospitality sector. TFCI also has a special role to play in this regard.
- We will also recommend for interest reduction or subvention on term loans and working capital loans for Travel and Tourism industry
- ICC also strongly recommend for removal of fees for any upcoming licenses, permits renewal, excise exemption (for liquor mainly) for the hospitality and travel industry across the country.
- 7. We will also urge the Ministry to provide funds from the MGNREGA scheme to support the salaries of employees in the industry.

LONG TERM MEASURES^[45,46,47,48,49,50,51,52,53,54,55]

Long term measures are something which heal the sector from within and build an inherent resilience to combat any future crisis of this sort and build the ability to recover in shortest possible time.

- 1. After the impacts of Corona virus pandemic subside, the primary aim of all the stakeholders of the country would be to bring back the confidence of the tourists to visit India. In fact, in the long run, the country will have a competitive edge in this respect, since it has been least affected by the pandemic compared to other countries afflicted by Corona virus. The Government and private stakeholders should very subtly publicise this newly acquired credibility for promoting our tourism sector. Government should allocate sufficient funds for organising Road shows and other promotional activities in prospective markets.
- 2. Government of India should tie up with healthcare accreditation bodies of foreign countries (like National Accreditation Board for Hospitals & Healthcare Providers (NABH) in India) to issue "Fitness Certificates" for visa purpose. Every tourist will have to procure this Certificate from the respective authority in his/her country to get visa. This Certificate needs to be made mandatory to block any cross-border transfer of infectious diseases, like Coronavirus. Tourists visiting

foreign countries will have to produce the 'Fitness Certificate' at the time of immigration formalities

- 3. The Government should focus highly on all type of safety and security measures for the tourists visiting various places of the country. Since global tourism fraternity will take some time to get settled after the aftermath of this pandemic, the sector per se should now focus more on domestic travellers. People would now feel more comfortable to travel within the country rather than going abroad. Alternative tourist spots should be developed and marketed properly within the country.
- 4. Since East and North Eastern States are comparatively in better position in terms of spread of Corona virus, both Central and State Government of this region should emphasize on promoting and developing tourism attractions of this region. There are lot of unexplored tourism options in North Eastern States. North Bengal is also having huge tourism potentials. Government should chalk out special plans to promote tourism in these areas.

CONCLUSION AND DISCUSSION

With fears of a new recession and financial collapse, times like these call for resilient and strong leadership in healthcare, business, government and wider society. This research paper has examined the greater impact that is being created by the virus on tourism. Instant relief measures need to be implemented and adjusted for those that may fall through the cracks. Intermediate and longer term planning is needed for how the economy is rebalanced and re-energised following this crisis. A socioeconomic development plan including sector by sector plans and an ecosystem that encourages entrepreneurship so that those with robust and sustainable business models can be allowed to flourish. It is prudent that governments and financial institutions constantly re-assess and reevaluate the state of play and ensure that the 'whatever it takes' promise is truly delivered.

This research work has also showcased the ultimate damage it created on the economy of the country and the globe too at the same time. It is being thought that the impact will continue for some more time and that is of much more concern in recent times. The travelling agencies are seen to be impacted by Covid-19 as the lockdown situation is established by the governments for prohibiting the spread of Covid-19. The Corona virus as also enabled the tourism industry to face the huge threat as well as the economic slowdown is seen. Due to this reason it is seen to be establishing an impact on the tourism industry. Though the measurements were undertaken, but they are seen to be not fruitful for prohibiting the spreading of corona virus. The impact is also seen on the sales as well as the current achievements. Different foreigners are still in the stuck down position as of Covid-19. Due to this reason, the group of hotels and the other tourism activities are not gaining the opportunity to fully stop the services. Due to this reason,

there lies a chance of spreading of virus more and more across the world.

REFERENCES

- [1] Al-Monitor (2020) Coronavirus cripples Egypt's tourism industry, Retrieved from: https://www.almonitor.com/pulse/originals/2020/03/egypttourism-sector-impact-coronavirus-outbreak.html [Access on April 5, 2020].
- [2] Worldometer COVID-19 Coronavirus Pandemic https://www.worldometers.info/coronavirus [Access on May 14, 2020].
- [3] Ministry of Tourism, Govt. of India http://tourism.gov.in/ [Access on May 14, 2020].
- [4] Ayittei, F., Ayittei, M., Chiwero, N., Kamasah, J. & DzuvorCovid, C. (2020) Economic impacts of Wuhan 2019nCoV ON China and the world, *Journal of Medical Virology*, 92: 473-75.
- [5] Balkan In Sight (2020) Greece braces for new coronavirus-driven recession, Retrieved from: https://balkaninsight.com/2020/03/18/greece-braces-for-newcoronovirus-driven-recession/ [Access on March 20, 2020]
- [6] Davies, R, "How coronavirus is affecting the global economy", the Guardian, 2020. [online], Available at: https://www.theguardian.com/world/2020/feb/05/coronavirusglobal-economy [Accessed 15 April. 2020].
- [7] BBC News (2020) Coronavirus: 'Extremely serious' concerns on potential tourism impact, Retrieved from: https://www.bbc.com/news/uk-northern-ireland-51695480 [Access on March 19, 2020].
- [8] BBC News (2020b) Virus 'could cost millions of tourism jobs', Retrieved from: https://www.bbc.com/news/business-51852505[Access on March 27, 2020]
- [9] Bloomberg (2020) Charting the Global Economic Impact of the Coronavirus, Retrieved from: https://www.bloomberg.com/graphics/2020-global-economicimpact-of-wuhan-novel-coronavirus/ [Access on March 18, 2020]
- [10] Nytimes, "In Coronavirus, \$45-Billion Cruise Industry Faces a Big Challenge", Nytimes.com, 2020. [Online], Available at: https://www.nytimes.com/2020/02/12/travel/coronavirus-cruisestravel.html [Accessed 16 Feb. 2020].
- [11] Centers of Disease Control and Prevention (2020) 'Coronavirus 2019 affected countries map', Retrieved from: https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/world-map.html [Access on March 24, 2020]
- [12] Chinazzi, M., Davis, J., Ajelli, M., Gioannini, C., Litvinova, M., Merler, S., Pastore y Piontti, A., Rossi, L., Sun, K., Viboud, C., Xiong, X., Yu, H., Halloran, M.E., Longini Jr, M. & Vespignani, A. (2020) The effect of travel restrictions on the spread of the 2019 novel coronavirus (2019-nCoV) outbreak, The Preprint Server for Health Sciences, BMJ Yale, Retrieved from:
- [13] https://www.medrxiv.org/content/10.1101/2020.02.09.20021261v 1 [Access on March 3, 2020] Chou, J., Kuo, N. & Peng, S. (2003) "The Potential Impacts on the Taiwanese Economy of the Outbreak of SARS" paper presented at Asian Economic Panel, Keio University, Tokyo, May. Chow, I. & Murphy, P. (2011) Predicting Intended and Actual Travel Behaviors: An Examination of Chinese Outbound Tourists to Australia, Journal of Travel and Tourism Marketing, 28 (3): 318-30.
- [14] CNN (2020) the coronavirus has grounded Chinese tourists. The global travel industry may not recover for years, Retrieved from: https://edition.cnn.com/2020/02/28/business/global-tourismnovelcoronavirus/ index.html [Access on March 29, 2020]
- [15] Eadington, W. (1999) The Economics of Casino Gambling, Journal of Economic Perspectives, 13 (3): 173-92.
- [16] Estrada, M., Park, D. & Lee, M. (2020) How A Massive Contagious Infectious Diseases Can Affect Tourism, International Trade, Air Transportation, and Electricity Consumption? The Case of 2019 Novel Coronavirus (2019-nCoV) in China (February 19, 2020). Available at SSRN Retrieved from: https://papers.ssm.com/sol3/papers.cfm?abstract_id=3540667 [Access on March 25, 2020]

- [17] Faulkner, B. (2002) Rejuvenating a Maturing Tourist Destination: The Case of the Gold Coast, *Current Issues in Tourism*, 5 (6): 472-513.
- [18] Federazione Italiana del Turismo (2020) Coronavirus: The amount of EUR 200 million for commission for March 2020. Retrieved from: http://www.assoturismo.it/coronavirusassoturismo-giabruciati-200-milioni-di-euro-di-prenotazioni-permarzo-messina-lavorare-per-la-normalizzazione-osalta- tutto.html [Access on March 6, 2020]
- [19] Global Business Travel Association (2020) 'Coronavirus Poll Results, March 2020', Retrieved from: https://www.gbta.org/Portals/0/Documents/PR/Coronavirus_poll_results_030920.pdf [Access on March 24, 2020]
- [20] Jin, X., Wu, L., Becken, S. & Ding, P.Y. (2012) How do Worry, Self-efficacy, and Coping Interact? Examining Chinese tourists to Australia, *Journal of China Tourism Research*, 12 (3-4): 374-93
- [21] IATA (2020) 'International Air Transport Association: Airlines Financial Monitor January – February 2020', Retrieved from: https://www.iata.org/en/iata-repository/publications/economic-reports/airlinesfinancial- monitor---feb-2020/ [Access March 24, 2020]
- [22] Lee, C.K., Song, H.J., Bendle, L., Kim, M.J. & Han, H. (2012) The impact of non-pharmaceutical interventions for 2009 H1N1 influenza on travel intentions: A model of goal-directed behavior, *Tourism Management*, 33(1): 89-99.
- [23] Lee, J.W. & McKibbin, W. (2004) Globalization and Disease: The case of SARS, Asian Economic Papers, 3 (1): 113-31.
- [24] Khan, K., Arino, J., Calderon, F., Chan, A., Gardam, M., Heidebrecht, C., Hu, W., Janes, D.A., Macdonald, M., Sears, J., Raposo, P. & Wang, S. (2009) Technical report, Bio.Diaspora Project, St Michael's Hospital, Toronto, Canada, Retrieved from: http://www2.biodiaspora.com/low_res.pdf [Access on March 3, 2020]
- [25] Kolata, G. (2001) Flu: The story of the great influenza pandemic of 1918 and the search for the virus that caused it, New York: Touchstone.
- [26] McCoy, A., Norris, A., Saltzer, R. & Moscardo, G. (2004) Changing patterns of regional tourism: implications for tourism on the Great Barrier Reef, *Journal of Tourism Studies*, 15 (1): 34-50.
- [27] Mangiapane, G. (2020) Italian authorities have closed schools and universities in Lombardy and northern regions in order to prevent the spread of the novel coronavirus, Retrieved from: https://www.aljazeera.com/indepth/inpictures/pictures-impactcoronavirus-italy-tourism- 200303070614911.html [Access on March 6, 2020]
- [28] March, A. (2020) Bushfire as disaster: Core principles, challenges and opportunities for planning, *Planning News*, 46 (1): 12-13.
- [29] McKibbin, W. & Fernando, R. (2020) The Global Macroeconomic Impacts of COVID-19: Seven Scenarios (March 2, 2020). CAMA Working Paper No. 19/2020. Retrieved from SSRN:
 - https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3547729 [Access on March 12, 2020]
- [30] National Geographic (2020) How hard will the coronavirus hit the travel industry?, Retrieved from: https://www.nationalgeographic.com/travel/2020/04/howcoronavirus-is-impacting-the-travelindustry/ [Access on April 8, 2020]
- [31] NBC News (2020) SARS wiped \$40 billion off world markets; what will coronavirus do?, Retrieved from: https://www.nbcnews.com/business/markets/sars-wiped-40-billion-world-markets-what-willcoronavirus- do-n1122151 [Access on March 18, 2020]
- [32] Neumann G., Noda, T. & Kawaoka, Y. (2009) Emergence and pandemic potential of swine-origin H1N1 influenza virus, *Nature*, 459 (7249): 931-9.
- [33] Nicholl, A. (2006) Personal (non-pharmaceutical) protective measures for reducing transmission of influenza: ECDC interim recommendations. Retrieved from: https://www.ncbi.nlm.nih.gov/pubmed/ 17213533 [Access on March 8, 2020]

- [34] Reisinger, Y. & Mavondo, F. (2005) Travel anxiety and intentions to travel internationally: implications of travel risk perception, *Journal of Travel Research*, 43 (3): 212-25.
- [35] Ren, J. (2020) Fare impacts of Southwest Airlines: A comparison of nonstop and connecting flights, *Journal of Air Transport Management*, 84: 101-6.
- [36] Reno Gazette Journal, (2020) How the coronavirus could impact the Las Vegas tourism economy, Published online by Ed Komenda March 6, 2020, Retrieved from: https://eu.rgj.com/story/news/2020/03/06/coronavirus-las-vegastravel-economy-tourism/4975781002/ [Access March 12, 2020]
- [37] RTE (2020) How the coronavirus may hit the tourism industry, Retrieved from: https://www.rte.ie/brainstorm/2020/0303/1119857-coronavirustourism-ireland/ [Access on March 24, 2020]
- [38] Siu, A. & Wong, R. (2003) "Ravaged by SARS: The case of Hong Kong SAR", paper presented at Asian Economic Panel, Keio University, Tokyo, May Skift (2020) Coronavirus and the travel industry, Retrieved from: https://skift.com/coronavirusandtravel/[Access on March 24, 2020]
- [39] Statista (2020a) Forecasted impact of coronavirus (COVID-19) on tourist arrivals in Italy in 2020, by region of destination, Retrieved from: https://www.statista.com/statistics/1101025/impact-ofcoronavirus-covid-19-on-tourist-arrivals-in-italy-by-region/ [Access on April 5, 2020]
- [40] Statista (2020b) Key figures on the impact of coronavirus (COVID-19) on Russian inbound tourism from China in 2020, Retrieved from: https://www.statista.com/statistics/1092398/russia-tourismsector-losses-from-novel-coronavirus-2019ncov/ [Access on March 24, 2020]
- [41] The Economic Times (2020) Impact of coronavirus on Indian tourism could run into thousands of crores of rupees, Retrieved from: https://economictimes.indiatimes.com/industry/services/travel/impact-of-coronavirus-on-indian-tourism-could-run-into-thousands-of-crores-of-rupees/articleshow/74592482.cms?from=mdr [Access on April 5, 2020]
- [42] Powell, A, "The global economic impact of the coronavirus outbreak", Harvard Gazette, 2020. [online], Available at: https://news.harvard.edu/gazette/story/2020/02/the-globaleconomic-impact-of-the-coronavirus-outbreak/ [Accessed 16 Feb. 2020].
- [43] The Guardian (2020) Australian hotels face ruin if coronavirus impact on tourism worsens, industry chiefs say, Retrieved from: https://www.theguardian.com/australianews/2020/mar/04/australianhotels-face-ruin-if-coronavirusimpact-on-tourism-worsens-industry-chiefs-say [Access on March 12,2020]
- [44] The New York Times (2020) Italy Locks down much of the country's north over the coronavirus, Retrieved from: ttps://www.nytimes.com/2020/03/07/world/europe/coronavirusitaly.html [Access on March 15, 2020]
- [45] The Real Deal (2020) Coming to a hotel near you: The \$2,500 coronavirus quarantine package, Retrieved from: https://therealdeal.com/2020/03/19/coming-to-a-hotel-near-you-the-2500-coronavirus -quarantine-package/ [Access on March 23, 2020]
- [46] The Wall Street Journal (2020) Do Not Disturb: Hotels Hammered by Coronavirus Offer 14-Day Quarantine Packages, Retrieved from: https://www.wsj.com/articles/hit-by-coronavirus-slowdownhotels-try-catering-to-the-quarantined-11584624502 [Access on March 22, 2020]
- [47] Tornos News (2020) Cyprus tourism hopes warmer weather would end the coronavirus crisis, Retrieved from: https://www.tornosnews.gr/en/tourism-businesses/markets/39309-cyprus-tourismhopes- warmer-weather-would-end-the-coronavirus-crisis.html [Access on March 29, 2020]
- [48] Springer, K, "Tourism industry hit hard as Chinese tourists stay home", CNN, 2020. [online], Available at: https://edition.cnn.com/travel/article/wuhan-coronavirus-tourism-impact/index.html [Accessed 15 Feb. 2020].

- [49] Travel Daily News (2020) Corona virus affecting the tourism industry worldwide, Retrieved from:https://www.traveldailynews.com/post/corona-virus-affecting-the-tourism-industry-worldwide [Access on April 5, 2020]
- [50] UNWTO (2020) Tourism and Covid-19, Retrieved from: https://www.unwto.org/tourism-covid-19-coronavirus [Access on March 29, 2020]
- [51] Wang, Y. & Sheldon, P. (1996) The Sleeping Dragon Awakes: The Outbound Chinese Travel Market, *Journal of Travel & Tourism Marketing*, 4 (4): 41-54.
- [52] Wen, H. (2003) "China in the Eye of the Storm", paper presented at Asian Economic Panel, Keio University, Tokyo, May.
- [53] World Economic Forum (2020) This is how coronavirus could affect the travel and tourism industry, Retrieved from: https://www.weforum.org/agenda/2020/03/world-travelcoronavirus-covid19-jobspandemic-tourism-aviation/ [Access on March 20, 2020]
- [54] World Travels and Tourism Council (2020) Impact of pandemic on travel and tourism, Retrieved from: https://www.wttc.org/priorities/crisis-preparedness/pandemics/ [Access on March 14, 2020].
- [55] Jennings, R, "Coronavirus Strikes Tourism, Factories, Consumption around Southeast Asia", Voice of America, 2020. [online], Available at: https://www.voanews.com/science-health/coronavirus-outbreak/coronavirus-strikes-tourism-factories-consumption-around [Accessed 16 Feb. 2020].