Metaverse cannot be an extra marketing immersive tool to increase sales in tourism cities

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Abstract
Purpose – The purpose of this paper is to analyse the metaverse platform in a social context to better understand the future of this tool in tourism cities and how this can help to improve the well-being of residents in both digital and physical scenarios.

Design/methodology/approach – In this paper, the current and probable developments in the metaverse, and its use in tourism cities and companies have been investigated. Moreover, this study develops, collects and examines the main metaverse definitions by expert authors and organizations as a methodology to ensure the transparency and credibility of the metaverse analysis.

Findings – Findings suggest that the fusion of the metaverse and tourism cities must create residents’ services and experiences in the new MetaTourPolis to help interact and connect citizens with the city’s institutions and companies, as well as make tourism cities more attractive, innovative, environmentally friendly and healthier places to live. Metaverse will bring new changes for residents and tourists, in fact, this virtual platform is already changing and improving the residents’ quality of life and people with disabilities in tourism cities. For instance, the metaverse platform has been implemented in Seoul, Santa Monica and Dubai MetaTourPolis to interact with their residents, including people with disabilities, to resolve bureaucratic and administrative problems, avoiding this group and the rest of the residents travelling by bus or car to the city’s institutions. In addition, several metaverse applications based on softbot tutors or metaverse virtual social centres have been developed to improve blind and impaired people, and elderly people’s quality of life, respectively.

Originality/value – A new concept called “MetaTourPolis” has been included to stage the relationship between tourism cities and the metaverse platform, where the fusion of metaverse and the new tourism polis of the 21st century will be at the service of citizens, tourists and companies, to create more sustainable, efficient, quantifiable and environmental tourism cities.

Keywords Metaverse, Tourism cities, Residents, Tourists, People with disabilities
Paper type Viewpoint

1. Introduction
The concept of interactive digital worlds generally called the metaverse is generating new and ambitious expectations in tourism and e-commerce sectors. The metaverse acts as a powerful promotional tool for travel to tourism cities and smart tourist destinations (STDs) to elevate the city’s brand recognition, and sales of products and services through digital experiences. For instance, theme parks can provide potential visitors with a preview of thrill rides through the first characters (e.g. Mickey Mouse, Cinderella, Spider-Man, Mario Broos or Harry Potter) hologram, 3D environment, reality augmented (AR), artificial intelligence (AI) extended reality (XR) or virtual reality (VR) sequences. In the case of museums, the main paintings of Louvre such as the Raft of the Medusa and the Mona Lisa painted by Théodore Géricault and Leonardo da Vinci painters, respectively, can increase the sales of virtual tickets through metaverse immersive tool. But the question is that metaverse risks...
becoming into another sales and marketing tool for tourism cities and companies. Researchers, destination marketing organizations (DMOs) and tourism and travel operators must therefore launch internal discussions to know the real usefulness of metaverse for cities, residents and tourists.

From an urban city perspective, to promote the most iconic tourist attractions through metaverse virtual tools and DMOs’ websites can stimulate tourism demand and increase tourism spending in cities (Florido-Benítez, 2023a). Metaverse is a virtual channel that involves selling virtual goods and services to final consumers (Bourlakis, Papagiannidis, & Li, 2013; Gadalla, Keeling, & Abosag, 2013). Possibly, metaverse will change how users interact with tourist destinations and companies’ paradigm in the next years. Even though metaverse is currently part of the omnichannel marketing strategies of DMOs and tourism companies as a sales and advertising tool. In this paper, metaverse is defined as a three-dimensional virtual universe where tourism cities and businesses can offer their products and services, strengthen their brand image and users (understood as digital avatars) can interact and purchase goods and services according to their needs and personal preferences. Yoo, Welden, Hewett, & Haenlein (2023) argued that the metaverse tool allows consumers to build and fully customize a digital persona to interact with firms, to buy customized products and services.

Buhalis, Leung, & Lin (2023a) noted that the metaverse is a convergence of physical and digital universes to stimulate potential consumers to travel on physical trips in cities and tourist attractions, or even substitute travel, when users are unable to travel, due to personal circumstances or environmental contexts. For instance, the essence of the metaverse tool is to create innovative and virtual experiences for users to stimulate the sales of companies. However, how can the tourism cities leverage the metaverse? What changes can the metaverse bring to residents and tourists? What problems can the metaverse solve for residents and people with disabilities in tourism cities? Gursoy, Malodia, & Dhir (2022) claimed that the metaverse as an interactive and immersive 360-degree or 3D virtual world cannot be merely a path to purchase.

For this reason, the metaverse tool also needs to include tangibilizing services that can help tourism cities improve their services and experiences for residents and tourists, and this does not become merely a commercial transaction through a virtual scenario. As stated by Koo, Kwon, Chung, & Kim (2023) the development of the metaverse tool in the tourism industry and cities must provide new opportunities to create tangibilizing services, to reinforce and improve services for tourists and the local population. Monaco & Sacchi (2023) suggested that the metaverse platform may help lessen CO₂ emissions by making travel by plan at tourism cities and STDs. Notwithstanding, Coca-Stefaniak (2021) noted that STD models do not tackle the social problem because they are focused on technological areas (Femenia-Serra & Ivars-Baidal, 2021). Moreover, the virtual metaverse platform and its future practical applications are in the incubation stage for urban cities, companies and consumers (Suanpang et al., 2022; Zhang, Quoquab, & Mohammad, 2023; Yoo et al., 2023). There is a lack of metaverse tourism research in tourism and urban city contexts to tackle sustainable tourism and residents’ needs in cities (Morrison & Maxim, 2021; Go & Kang, 2023; Buhalis et al., 2023a). It is essential to have a balanced viewpoint on the metaverse for the tourism and hospitality sectors (Zhong, Xu, Morrison, Li, & Zhu, 2023).

To the best of the observed knowledge, this is the first research paper that highlights a research gap in the relationship between the metaverse tool, tourism cities and residents to enhance future challenges in tourism cities and the metaverse. The main objective of this manuscript is to analyse the metaverse platform in a social context to better understand the future of this tool in tourism cities and how this can help to improve the well-being of residents in both digital and physical scenarios. Bibri & Allam (2022a) noted that STD and metaverse spaces do not show the realities of cities, like social exclusion or the trajectories of urban communities, and both STD and metaverse scenarios ignore the true concerns of
citizens. Although, the city of Seoul (South Korea) has invested billions into the urban metaverse project to make the city more functional and livelier for residents and tourists (Wray, 2022).

2. The metaverse concept in a business and social context

Although the metaverse has been the focus of much discussion in recent years, there has yet to be a convergence on how to define this concept. Metaverse was coined by Neal Stephenson in his 1992 science fiction novel Snow Crash. After that, Davis et al. (2009) defined metaverse as “an immersive three-dimensional virtual world in which people interact as avatars with each other and with software agents, using the metaphor of the real world but without its physical limitations.” Previous scientific studies have shown the benefit and technological characteristics of the metaverse in the tourism sector to improve tourists’ experiences and prevent cyberattacks (Buhalis & Karatay, 2022; Kuru, 2023; Volchek & Brysch, 2023). However, tourism cities cannot be understood as a metaverse space for tourists and companies and separated from social, economic and governance factors. Cities are open complex giant systems, that first need to address the issues of their citizens’ concerns, such as climate change, reduce CO₂ emissions, reduce youth unemployment, provide excellent transport and health services for residents and people with disabilities and improve the local and regional economies (Morrison & Coca-Stefaniak, 2020; Maxim, Morrison, Day, & Coca-Stefaniak, 2023; Florida-Benítez, 2023b; Buhalis O’Connor, & Leung, 2023b). Lv, Wen-Long, & Mohsen (2022) noted that the metaverse also needs to create experiences and services for residents in the urban cities to connect residents, cities, companies and tourists, making tourism cities more attractive, open and interoperable for all. This study develops, collects and examines the main metaverse definitions by expert authors and organizations as a methodology to ensure the transparency and credibility of the metaverse analysis.

Table 1 shows the different metaverse definitions and perspectives from authors and organizations. For instance, Suanpang et al. (2022), Zaman, Koo, Abbasi, Raza, & Qureshi (2022), Koo et al. (2023), Zhang et al. (2023), Volchek & Brysch (2023), Hassan & Saleh (2023), Prados-Castillo, Torrecilla-Garcia, & Liébana-Cabanillas (2024) and Zhong et al. (2023) suggested that the metaverse is a digital tool to improve consumers’ experiences. However, Bourlakis et al. (2013), Gadalla et al. (2013) and Go & Kang (2023) argued that the metaverse is a sales tool to sell products and services. Whereas for some authors such as Kim (2021), Monaco & Sacchi (2023), Tan et al. (2023) and Mihalic (2024) show this virtual scenario as an advertising, promotion and marketing tool. From a governance and tourism development point of view, Bibri & Allam (2022a), Kuru (2023) and the WEF (2023a) noted that the metaverse enhances the governance and tourism development in cities, or even citizens’ quality of life, including elderly people and blind and visually impaired people (Zambiasi, Rabelo, Zambiasi, & Romero, 2023; Wasi, 2023; Liang et al., 2023b; Vlăduțescu & Stănescu, 2023). Indeed, most of the metaverse definitions presented in Table 1 are not considered in a tourism context to improve the tourism development of cities and to interact with and motivate tourists and residents to use this virtual platform with the aim of receiving new services and opportunities. Recently, Orlando, Boston and Las Vegas have created virtual replicas of their cities in the form of digital twins (DTs), allowing them to play out hypothetical scenarios to anticipate specific impacts of things like adding new buildings, changing streets or other land use decisions.

The question is that most metaverse concepts are focused on companies’ commercial activities and tourists’ experiences, but not on improving the well-being of residents in cities. Therefore, the future of the metaverse should implement social and economic activities for residents, particularly for the most vulnerable people, such as elderly people, patients, people with reduced mobility and blind and visually impaired people. Promoting the expansion and adoption of the metaverse tool in cities for improving the social inclusion of less-favoured people must be a priority for national and regional governments. Immersive
Table 1: The metaverse definitions

<table>
<thead>
<tr>
<th>Authors</th>
<th>Metaverse definitions</th>
<th>Perspectives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kahai, Carroll, &amp; Jestice (2007)</td>
<td>Metaverse is a collaborative tool to improve companies’ processes.</td>
<td>A collaborative tool</td>
</tr>
<tr>
<td>Davis et al. (2009)</td>
<td>Metaverse is an immersive three-dimensional virtual world in which people interact as avatars with each other and with software agents.</td>
<td>A communication tool</td>
</tr>
<tr>
<td>Getchell, Miller, &amp; Allison (2010)</td>
<td>Metaverse is an emergent technology for game-based learning.</td>
<td>A game and learning tool</td>
</tr>
<tr>
<td>Bourlakis et al. (2013); Gadalla et al. (2013); Falchuk, Loeb, &amp; Neff (2018); Kim (2021)</td>
<td>Metaverse is a virtual channel that involves selling virtual goods and services to final consumers. Metaverse is a virtual platform which its main purpose is socialization and interaction with other people (avatars). Metaverse is an advertising tool to communicate companies’ products and services.</td>
<td>A sale channel</td>
</tr>
<tr>
<td>Jeon &amp; Jung (2021)</td>
<td>Metaverse is an online educational platform that includes online teaching, learning activities, and educational activities.</td>
<td>An educational and teaching tool</td>
</tr>
<tr>
<td>Bibri &amp; Allam (2022a); Goldberg &amp; Schär (2023)</td>
<td>Metaverse is a digital tool to enhance the governance at cities and organizations.</td>
<td>A digital tool to enhance the governance at cities and organizations</td>
</tr>
<tr>
<td>Polona et al. (2022); European Parliament (2022); Kerdivülveç (2022)</td>
<td>Metaverse is a virtual platform to create new opportunities for companies and consumers. Metaverse is a virtual tool which provides games for children and adults.</td>
<td>A space of new opportunities for all</td>
</tr>
<tr>
<td>Buhalis &amp; Karatay (2022)</td>
<td>Metaverse is a virtual tool to improve cities, products, and services.</td>
<td>An entertainment tool</td>
</tr>
<tr>
<td>Um et al. (2022)</td>
<td>Metaverse is a tool to develop smart cities.</td>
<td>A tool for continuous improvement</td>
</tr>
<tr>
<td>Gursoy et al. (2022)</td>
<td>Metaverse is a parallel reality where humans can work, play, and communicate.</td>
<td>A tool of tourism development at cities</td>
</tr>
<tr>
<td>Zallio and Clarkson (2022)</td>
<td>Metaverse is a digital space to ensure and protect users’ online activities through their avatars.</td>
<td>A work, game, and communication space</td>
</tr>
<tr>
<td>Suanpang et al. (2022); Zaman et al. (2022); Koo et al. (2023); Zhang et al. (2023); Hassan &amp; Saleh (2023); Prados-Castillo et al. (2024), Zhong et al. (2023); Aydin &amp; Nalbant (2023)</td>
<td>Metaverse is a virtual platform to improve consumers’ experiences.</td>
<td>A safety tool</td>
</tr>
<tr>
<td>Garrido &amp; González (2023)</td>
<td>Metaverse is a digital space to improve companies’ brand image.</td>
<td>A tool to improve firms’ brand image</td>
</tr>
<tr>
<td>Idrees, Vignali, &amp; Gill (2023)</td>
<td>Metaverse is a communication tool.</td>
<td>A communication tool</td>
</tr>
<tr>
<td>WEF (2023a)</td>
<td>Metaverse is an e-commerce tool to provide customised product and services.</td>
<td>A tool to offer personalized products and services</td>
</tr>
<tr>
<td>Kuru (2023)</td>
<td>Metaverse is a virtual tool to improve the governance and tourism development at cities.</td>
<td>A tool to improve cities’ governance and tourism development</td>
</tr>
<tr>
<td>Gegung (2023)</td>
<td>Metaverse is a physical and digital space where the governance, urban cities, and the life quality of citizens can be enhanced.</td>
<td>A tool to improve the governance, urban cities, and the life quality of citizens</td>
</tr>
<tr>
<td>Yoo et al. (2023)</td>
<td>Metaverse is a virtual platform to improve tourism demand.</td>
<td>A tool to enhance tourism demand</td>
</tr>
<tr>
<td>Buhalis et al. (2023a)</td>
<td>Metaverse is an online collaborative shared space built of 3D environments that leverage high consumer immersion techniques. Metaverse is a convergence of physical and digital tool to stimulate potential consumers to travel physical trips at cities and tourist attractions.</td>
<td>A virtual collaborative space</td>
</tr>
<tr>
<td>Monaco &amp; Sacchi (2023); Tan et al. (2023); Mihalic (2024)</td>
<td>Metaverse is a marketing tool where companies can sell and promote their products and services.</td>
<td>A virtual tool to stimulate tourists demand at cities and tourist attractions</td>
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(continued)
technologies such as the metaverse empower patients to boost their wellbeing (Nadarasa, 2024). Radanliev, De Roure, Novitzky, & Stukajnovic (2023) noted that the metaverse enhances the digital accessibility and inclusiveness of disabled users in society. Hence, travel and tourism companies and urban cities need to design immersive activities that tourists and residents perceive to be valuable and for which they are willing to pay.

For instance, during the pandemic crisis, the adoption of technologies like digital educational platforms became common practice in schools and universities since the first lockdowns (Monaco & Sacchi, 2023). Technology offers a new set of opportunities that will shape crisis, mobility and security in the travellers and tourism sectors (Monaco, 2021). Metaverse platforms encourage visitors to try out virtual visits to some destinations on their bucket lists. In fact, travellers may obtain some beneficial information about destinations before bodily visiting those places (Gegung, 2023). VR tourists have seen locations as varied as the sights and destinations worldwide during the COVID-19 pandemic (Zaman et al., 2022), not to mention the exponential growth in the e-commerce industry and food delivery and package delivery services in this uncertain period (Gössling & Schweiggart, 2022). Kerdvibulvech (2022) noted that during COVID-19 and the post-pandemic period, metaverse games have helped to improve health protection protocols, health-care education and the safety of health-care workers.

3. The metaverse tool is applied to cities, tourism and travel companies and people with disabilities

Recently, the metaverse topic has been of great interest to DMOs and researchers in tourism and hospitality due to its social, technological and commercial disruption. Immersive experiences through metaverse platforms have transformed conventional travel decision-making processes with virtual tours that are identical to real tours within a destination (Jafar & Ahmad, 2024). Large companies such as Roblox, Shopify, Meta, Zepeto, Microsoft, Fortnite and The Sandbox are using the metaverse for marketing, advertising and branding purposes to increase sales and benefits (Idrees et al., 2023; Aydin & Nalbant, 2023). Recently, Qatar Airways launched a VR experience named QVerse that allows travellers to view cabin interiors, the business-class QSuite and the VIP check-in area at the Hamad airport, in the state of Qatar (Constantin et al., 2023). Metaverse will be a virtual scenario where companies compete with each other, and these will try to promote personalized products and services to attract new customers, as well as develop relationships with existing customers. One example of this is the development of Adidas and Nike’s metaverse, both companies are recently competing to sell digital collections of their shoes. These digital versions of their limited shoes have different skins that can be customized. From an economic and commercial point of view, the global metaverse market will reach €597bn by 2030 (European Parliament, 2022).

<table>
<thead>
<tr>
<th>Authors</th>
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<th>Perspectives</th>
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<tbody>
<tr>
<td>Go &amp; Kang (2023)</td>
<td>Metaverse tourism is a virtual space that provides products or experiences to users.</td>
<td>A sale tool</td>
</tr>
<tr>
<td>Zambiasi et al. (2023)</td>
<td>Metaverse is a virtual platform which improves the quality of life of blind and visually impaired people.</td>
<td>A tool to improve the quality of life of blind and visually impaired people</td>
</tr>
<tr>
<td>Wasi (2023); Liang et al. (2023b); Vlăduțescu &amp; Stănescu (2023)</td>
<td>Metaverse is a virtual social space that can help elderly people can maintain an optimistic, stable and happy mood while participating in social activities in the virtual world to alleviate loneliness and recover from depression.</td>
<td>A tool to enhance the quality of life of elderly people</td>
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Source: Author’s own elaboration
Indeed, if the metaverse tool continues to be seen as a sales and marketing tool by tourism cities, this will be questioned by researchers due to its only commercial approach and lack of commitment towards residents’ concerns, the sustainability of the destination and the lack of transparency and efficiency of economic budgets spent on the metaverse platform by DMOs. Hence, their bad governance in the management of economic resources. Hollands (2015) and Grossi & Pianezzi (2017) revealed that the interests of big tech companies and large corporations condition government policies and the governance of STDs and tourism cities. We must not forget that an STD is a city that combines tourists’ customized experiences based on the ubiquity of information and supported by information and communication technology. STDs are accessible spaces for all that guarantee the sustainable development of the city and residents’ needs (Florido-Benitez, 2024a). In a nutshell, STD and tourism cities should cover residents’ needs first, followed by companies and tourists’ interests.

According to the WEF reported that more than 700 urban cities will have metaverse platforms by 2030. The inclusion of tourism cities in the metaverse has already commenced. Tourism cities such as Seoul, Santa Monica and Dubai already have metaverse scenarios, and their main advantages are cost savings on the design, operation and maintenance of city infrastructure and increased engagement from the urban population (WEF, 2023a). Figure 1 displays how Seoul, Santa Monica and Dubai tourism cities are leading the metaverse scenario in the world according to WEF (2023a). These three cities are using the metaverse as a marketing tool to improve their brand image, but the metaverse is also used by these cities as a useful tool to improve their transport, education and health services, urban planning, mobility projects, sustainability and economic budgets. For instance, on Seoul’s metaverse platform, residents can interact with virtual versions of all areas of Seoul’s city administration, making it easier to do bureaucratic processes and other procedures with the municipal administration while providing a more customized experience than a website can provide on a smartphone or PC (Garrido & González, 2023).

The metaverse can be useful for people with disabilities, elderly people and patients. If an urban city (understood as a City Council, university or hospital) interacts with people with disabilities through the metaverse to resolve administrative, fiscal, economic, bureaucratic and financial problems or even a medical appointment that person will avoid that person...
travelling by car or bus to the City Council and hospital (see Figure 2). For instance, Zambiasi et al. (2023) presented a metaverse-based software robot (softbot) tutor to train and support impaired workers, that is, the metaverse acts as an immersive cyber-physical training room, and the user’s avatar acts as the impaired worker’s representative in the virtual environment.

There are already some applications based on the metaverse and computer devices designed to serve and help people with low vision or visual impairment, ranging from adults to elderly people (Wasi, 2023). In addition, Liang et al. (2023b) showed a metaverse virtual social centre for elderly people, where they interacted with other people (avatars) and virtual scenarios. This is a real example of how the metaverse helps elderly people maintain an optimistic, stable and happy mood while participating in social activities in the virtual world to alleviate loneliness and recover from depression (Liang et al., 2023b). In addition, the metaverse is used to simulate the entire radiotherapy process and identify and address issues that may arise during the process (Zhao & Sun, 2022).

The metaverse has to be accessible to all social groups to be socially sustainable (Vlăduțescu & Stănescu, 2023). China’s first metaverse research centre has been set up in the city of Zhangjiajie to improve the planning and organization of tourism development in Chinese cities (Liu et al., 2022).

An immersive resident’s participation through the metaverse platform can considerably improve the resident’s quality of life. However, the accessibility and inclusiveness of the metaverse remain areas where progress has yet to be made to create an environment of equal opportunities (Polona, André, & Maria, 2022). In short, this innovative platform could revolutionize many areas in urban cities, including tourism, transport services, health care, banking, smart homes and energy management (Yaqoob, Salah, Jayaraman, & Omar, 2023). Another thing will be that local and regional government bodies use the metaverse for social and environmental ends and never for commercial or political purposes.

**Figure 2** The metaverse is a useful tool for people with disabilities, elderly people, patients and students

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*Source: Prepared by author*
Government bodies and private organizations need to understand the ethical and security risks posed by the metaverse to create an open and healthy society. Metaverse platforms promote a more consumerist and devoid of values (Bibri & Allam, 2022b).

Nonetheless, like any technology tool, the metaverse also has its disadvantages, such as its potential for addiction and social isolation. As people spend more time in the virtual world, they may become disconnected from the physical world and their real-life relationships. This can have a negative impact on mental health and well-being (Sekure, 2023). Indeed, one of the greatest problems facing the metaverse today is cybersecurity. Current cybersecurity challenges such as phishing, malware and hacking will persist and extend to devices enabling a metaverse experience and to avatars (European Parliament, 2022).

Recently, a study carried out by Florido-Benitez (2024b) revealed that hotels and online travel agencies (OTAs) are constantly exposed to cyberattacks in smart cities, especially data breaches and malware attacks. There are no 100% safe spaces, the risk of a cyberattack is always latent (Florido-Benitez, 2021). Protecting the integrity of avatars will therefore be a particular issue of concern for tourism cities, STDs and companies. Saharan, Singh, Bhandari, & Yadav (2024) revealed that cyberwarfare in the metaverse involves state-sponsored attacks, espionage, information warfare and manipulation of virtual defence systems. Nguyen (2022) suggested that the DTs tool offers the capability of running simulations across multiple knowledge domains in the metaverse to improve proactive cyber defence strategies, as well as prevent future cyberthreats and cyberattacks. A DT tool is a virtual representation of a real-world city, company or process that is used to improve governance, performance, productivity, sustainability, efficiency and effectiveness of activities by STDs, tourism cities, governments and companies.

For instance, in cities such as London, Paris, Dublin, Tokyo, Amsterdam, NY or Sidney, the fusion of DT, metaverse and historical data will have significant effects on simulating and modelling events like reducing traffic congestion and CO2 emissions, mitigating climate change and floods, resolving cyberattacks and improving cities’ urban planning and energy demands in view of changing urban populations, amongst many others. The importance of metaverse and DT scenarios to predict the behaviour of tourism, business ecosystems and future disasters like floods, earthquakes, cyclones and hurricanes lies in historical data, machine and deep learning techniques and interoperability between cities and companies to resolve incidents and future crisis (Bibri, 2022). A study carried out by Allam, Sharifi, Bibri, Jones, & Krogstie (2022) noted that metaverse and DT technologies will enhance the residents “quality of life” in urban areas and facilitate the growth of business and tourism development in these cities.

4. Metaverse benefits for e-commerce companies

The metaverse will bring a new era of business innovation for customers and companies, a virtual existence where digital avatars will extend their real lives or vice versa to interact with other people and companies through the metaverse. Users will receive real-time information and 3D images from companies and governments, but the most important thing is that users will live constantly immerse in a virtual consumerism called metaverse. One illustrative example was how Amazon’s profit increased by 220% in 2020, due to the pandemic boosted shopping online (Weise, 2021). Online impulsive purchasing is an important factor in online shopping for large e-commerce companies. Most e-commerce firms have implemented marketing strategies to boost online impulse buying by providing greater opportunities to attract and retain customers (Wu, Chen, & Chiu, 2016). Liu, Li, & Hu (2013) revealed that 40% of online consumers consider themselves impulse shoppers, especially motivated by free shipping, which is the top factor motivating online purchases (Rivera, 2023).

Metaverse is a new way of doing business through an immersive virtual experience. The tourism industry is currently experiencing significant changes because of the evolution of
Tourism and travel companies are implementing the metaverse as a sales and marketing tool in their strategic plans to increase their benefits. The metaverse offers tourism and travel companies important marketing and customer relationship opportunities because this saves customers time and money when they are planning trips (Gursoy et al., 2022). For instance, Gen Y, often called “digital natives” use the Metaverse platforms because they prefer immersive experiences, loyalty programs and consistent online support (Lee, Nguyen, & Yang, 2023). In contrast, Gen Z is focusing more on the social and community aspects of games such as Roblox, Minecraft and Fortnite than on playing the games themselves (Lamba & Malik, 2022). In regards to tourism, millennials use the metaverse and social media to make savvy travel-buying decisions (Corbisiero, Monaco, & Ruspini, 2022). Understanding the distinct characteristics of various age groups can contribute to creating a more nuanced and effective profile of potential users on metaverse platforms.

Metaverse provides an immersive, dynamic and innovative digital platform for showcasing tourism destinations, attractions, events and hospitality services (Buhalis et al., 2023a). Ioannidis & Kontis (2023) claimed that the metaverse is a new marketing and digital channel to promote and sell companies and cities’ products and services. Indeed, the metaverse is a communication tool that helps to reduce consumers’ stress because they are consuming content on this virtual platform without leaving the house (Ilyina, Eltikova, Uvarova, & Chelysheva, 2022). Figure 3 illustrates the main advantages of the metaverse for companies, where avatars and firms will benefit from this virtual universe. One of the primary attractions of the metaverse is the ability to create personalized products and services for avatars, and users can interact with companies and other avatars about the product and service’s quality and guarantee.

The metaverse will also have significant impacts on companies, such as universalizing the company’s brand image, attracting new partners and investors and boosting the impact of their digital communication and information by using personalized images and personalized content to attract new avatars. The metaverse must generate benefits for companies and cities, but it also should be able to improve the well-being of people in both digital and

![Figure 3: The main advantages of the metaverse for companies](image-url)
physical scenarios. Science and technology must be at the service of people, not vice versa. This is the big issue with science and today’s society will have to deal with it in this century. Harari (2019) noted that the AI tool could cause a very large number of dangerous scenarios due to the technology’s sophistication which makes forecasting its dangers difficult. In the case of the metaverse, this virtual tool must be useful and accessible for the entire society to be environmentally and socially sustainable.

This innovative platform is a digital scenario where avatars can play games, work lines and buy goods and services in terms of business-to-business and business-to-consumers. Thus, tourism and travel companies are fully aware of their real advantages in universalizing their brand image and generating new income (Thapa, 2023). Travel and tourism companies focused on creating metaverse tour content will be able to enhance the return on investment on this virtual platform (Tsai, 2022). For instance, Vueling is the first airline to announce the sale of flights through the metaverse, whereas Japanese First Airlines offers a virtual travel experience, simulating vacations to Paris, Rome, HI and New York using virtual reality and in-flight service. Undoubtedly, as the metaverse continues to unfold in society, the more we realize how large technology and e-commerce companies sell us the metaverse’s kindness and benefits to increase their sales and revenues. The metaverse will change the ways in which consumers consume hospitality and tourism products and services in cities. Özdemir & Şahin (2023) emphasized that tourism and travel companies operating in the metaverse can increase their sales figures, thanks to the scope of marketing activities and consumers’ bookings.

Furthermore, the metaverse can help businesses reduce their costs by reducing the requirement for many physical assets that are necessary for in-person spaces. Employees can have virtual offices and shared spaces, cutting down on all the costs associated with a physical headquarters. Khalaj et al. (2023) noted that the implementation of DTs integrated into the metaverse platform will enhance companies’ efficiency and productivity, as well as reduce costs. De Giovanni (2023) noted that avatars accessing the metaverse platform reduce their mobility over the eco-system, implying a reduction of CO2 emissions linked to decreased transportation.

5. The irruption of the metaverse in the management of tourism cities

City tourism is one of the fastest-growing travel segments worldwide, and it occurs in urban areas like metropolitan destinations and the great cities of each country (Gurung & Gowreesunkar, 2023), generating substantial economic and social benefits for local communities (UNWTO, 2020). London, Paris, NY, Tokyo, Barcelona or Sidney tourism cities have developed new strategic and sustainable plans to address the major current issues in their urban areas, such as reducing CO2 emissions, traffic, climate change, gentrification, overcrowding and enhancing residents’ needs (Maxim, 2017; Florido-Benı´tez, 2023b). As stated by Guizi, Breda, & Costa (2020) tourism cities need to find ways to protect the rights of their residents and ensure that tourism benefits everyone, as well as that local communities must be involved in the city’s urban planning to improve the sustainability of the tourism industry in cities (Elorrieta, Cerdan Schwitzguebel, & Torres-Delgado, 2022; Mihalic, 2024). Coca-Stefaniak (2019) emphasized that tourism cities are taking actions to reduce the effects of climate change on tourism, particularly through innovative technologies (Coca-Stefaniak & Morrison, 2022). More than half of the world’s population lives in cities today, and by 2030 an estimated five billion people will live in urban areas (Bock, 2015).

With regards to environmental sustainability in tourism cities, the metaverse can help reduce the consumption of natural resources, including raw materials, water and energy, as long as companies and governments increase their operations through this virtual platform. Jauhiainen, Krohn, & Junnila (2023) suggested that it is urgently needed to include energy and water resources in the construction of the metaverse to resolve the water scarcity in
some tourism cities. This initiative should be met to improve residents’ well-being. The
governance, communication and information services, users’ privacy and safety data,
service delivery and cutting operating and structural costs of companies may be improved
thanks to the innovative metaverse technology (Jobe, Yilmaz, Tüfekci, & Clarke, 2023).
Metaverse has become very popular in Chinese urban tourism. It has become a significant
part of theme exhibitions, museums, cultural centres and theme parks, attracting thousands
of tourists (Zhang & Quoquab, 2023).

For instance, available resources and geographic and cultural nuances influence the
applicability and success of metaverse implementations in tourism cities. The city of Shanghai
has implemented the metaverse tool with the prospect of gaining better results in different
areas, from virtual hospital diagnoses to digital reproductions of the city’s historic architectural
landmarks. In the case of the city of Nanjing in China, is combining metaverse and blockchain
technologies to improve online commercial transactions. Nanjing has set itself the task of
reaching $19bn in income by the end of 2025 through the metaverse industry (Yun, 2023).

Another case is Siemens, a German multinational technology company that invested EUR
1bn in the metaverse tool in the Nuremberg metropolitan region to improve the company’s
productivity, efficiency, flexibility and sustainability (Zabeu, 2023). Nonetheless, all cities
and companies do not have as many economical resources as Shanghai and Nanjing
Chinese cities or Siemens to implement metaverse platforms in their technological
operations to improve the city’s tourism sustainability. The development cost of a metaverse
can vary from $10,000 to $400,000 based on several cost factors, such as digital avatars,
security, hardware and infrastructure (Jain, 2023). Metaverse includes technologies such as
AR, VR, AI, blockchains and internet of things amongst many others, for a better resident
and tourist’s experience, and to include these technologies by DMOs or companies
requires great economic resources. Thus, implementing metaverse platforms can be a
huge obstacle for small cities with low economic budgets.

Liang, Fan, Jiang, Zhang, & Qi (2023a) noted that the metaverse creates new experiences
for tourists and residents (avatars) in the commercial streets of tourism cities because AI
algorithms combine real and virtual spaces with the aim of customizing XR content for
different consumers so that consumers can get a personalized. Özdemir & Şahin (2023)
suggested that tourism and travel companies operating in the metaverse can increase their
sales figures, thanks to the scope of marketing activities and consumers’ bookings.

Moreover, tourism cities seek to enter the metaverse for reasons such as technological
innovation, global connection, enhancing local tourism and urban planning, attracting new
businesses and investors and collaboration in promoting immersive virtual inclusion
(de Almeida, 2023). The emergence of the metaverse in tourism cities will strengthen
communication and digital transactions between cities, companies and users. Hence, Bibri
& Jagatheesapumal (2023) noted that combining virtual and physical realities through the
metaverse will bring new technological innovations for the future benefit of tourism cities
and their residents, as well as the tourism and travel sectors.

With this backdrop, we would like to include a new concept in the relationship between
tourism cities and the metaverse platform called “MetaTourPolis”, where the fusion of the
metaverse and the new tourism polis of the 21st century will be at the service of citizens,
tourists and companies to create more sustainable, efficient, quantitative and environmental
tourism cities. The originality and value-added of the MetaTourPolis concept in this paper
seek to highlight the need to implement metaverse technology in cities to boost universal
inclusion, improve governance, environmental sustainability and tourism development, as
well as attract new investors to create new business opportunities.

Figure 4 shows the metaverse’s benefits in tourism cities and how this virtual platform can
improve residents’ quality of life and tourists’ experiences. For instance, the metaverse must be
a useful tool to improve the governance of tourism cities and attract new investors and business
opportunities for regional economies and their citizens. The WEF (2023b) noted that metaverse platforms help to enhance the governance of cities because these disruptive technologies can mitigate potential socioeconomic harms. However, the implementation of the metaverse involves different governance modes. Technical standards in governance need to distinguish various stakeholders, such as government departments, industrial alliances, enterprises and consumers (Yang, 2023). Chen, Gun, Wu, Lin, & Chen (2024) suggested that the combination between the metaverse and smart cities can improve the quality of life of citizens and enable more efficient governance and management systems. A study carried out by Goldberg & Schär (2023) found that metaverse governance is a key criterion for businesses’ virtual location choice, and this digital tool helps organizations make better decisions.

Another technological benefit of the metaverse is its level of immediacy and interactivity to provide information and to avoid people travelling by car or bus to resolve bureaucratic or administrative problems. Moreover, the metaverse can enhance healthcare, cybersecurity, transportation, smart homes, energy management and tourism activities at MetaTourPolis, as we mentioned previously. For instance, the combination of DT and metaverse tools can provide a platform for intelligent energy’s control, management and optimization in cities (Zhang & Liu, 2023). While the metaverse has the opportunity to be comfortably applied in all areas of daily life, it can also be designed as a management tool to reduce the consumption of electricity and water and its impact on climate change and the environment of tourism cities.

6. Conclusions

The main objective of this manuscript was to analyse the metaverse platform in a social context to better understand the future of this tool in tourism cities, and how this can help to improve the well-being of residents in both digital and physical scenarios. Initially, this paper reveals that including the metaverse platform in tourism cities and companies will not be an easy task to harmonize and cover residents’ needs, tourists’ demands and experiences, and companies’ commercial interests. The researchers are recently analysing and found how the metaverse tool is still in its infancy, and this virtual platform lacks many
features and mechanisms to ensure its functions properly, such as the complexity of customizing products and services to avatars or even to running avatars, scenes or digital assets easily and interchangeably (Suanpang et al., 2022).

Furthermore, findings suggest that the fusion of metaverse and tourism cities must create residents’ services and experiences in the new MetaTourPolis. This new concept can help interact and connect citizens with the city’s institutions and companies, as well as make tourism cities more attractive, innovative, environmentally friendly and healthier places to live. Metaverse will bring new changes for residents and tourists, in fact, this virtual platform is already changing and improving the residents’ quality of life and people with disabilities in tourism cities. For instance, the metaverse platform has been implemented in Seoul, Santa Monica and Dubai MetaTourPolis to interact with their residents, including people with disabilities, to resolve bureaucratic and administrative problems, avoiding that this group and the rest of the residents travelling by bus or car to the city’s intuitions. In addition, several metaverse applications based on softbot tutors or metaverse virtual social centres have been developed to improve blind and impaired people’s, and elderly people’ quality of life, respectively (Zambiasi et al., 2023; Wasi, 2023; Liang et al., 2023a, 2023b; Vlăduțescu & Stănescu, 2023). The accessibility and inclusiveness of residents and tourists at MetaTourPolis need to provide an environment of equal opportunities for all. The metaverse platform must be human-first to prioritize the well-being of all stakeholders.

Another important outcome was that the fusion of metaverse and tourism cities provides innovative solutions that boost and improve urban experiences, tourists’ experiences and residents’ quality of life. To include the metaverse tool in tourism cites, improve governance, communication with tourists and residents, the efficiency of economic budgets, the effectiveness of public policies, involve residents in future projects related to the sustainability of the environment and attract new investors require good management and social-economic planning by regional governments and DMOs The metaverse facilitates governance in cities. Through virtual simulations and real-time data analysis, city authorities can make well-informed decisions quickly, evaluate the impact of policy changes and monitor the effectiveness of interventions (Chen et al., 2024).

Metaverse, DT, Chat generative pre-trained transformer and AI innovative technologies are crucial for tourism marketing and management of cities because these tools are improving efficiency and sustainability for the tourism industry (Jia, Chi, Martinez, & Lu, 2023). Although, we must recognize that small cities do not have the economic capacity to implement these disruptive technologies. It would be advisable for small cities to receive financial aid to develop their own metaverse platforms to boost their tourism model from national governments and the European Union. Each city must design its own metaverse platform linked to its tourism and business model. It is not the same to develop a metaverse platform on the island of Ibiza (Spain) that is totally dependent on the tourism industry as to develop a metaverse platform in the urban city of Frankfurt, whose its main economic engine is the financial sector. The characteristics and needs of each city require different perspectives and solutions. Therefore, regional, cultural, type of sectorization and economic resource contexts shape the adoption of metaverse technologies in cities.

Finally, we would like to highlight that if the metaverse tool wants to change and transform tourism cities, residents’ well-being and tourists’ experiences in the coming years, this innovative platform needs to tackle significant challenges and problems related to cybersecurity, privacy, data management, interoperability, accessibility and inclusiveness in its core business operations and decision-making processes. Therefore, future research should be focused on cybersecurity and interoperability activities through the metaverse platform, as well as on ensuring both avatars and companies’ data, privacy and transactions in MetaTourPolis. Furthermore, this manuscript shares some of the same limitations of previous studies, such as the fact that the future of the metaverse tool in the tourism industry is practically based on hypothetical scenarios and its positive and negative effects on tourism.
companies and cities (Polona et al., 2022; Özdemir & Şahin, 2023). The interrelationship between metaverse and tourism cities continues to unfold, and creating high expectations in terms of tourism, governance and social-economic activities could be a great imprudence (Ioannidis & Kontis, 2023).

7. Theoretical implications

From a theoretical perspective, this paper contributes to the metaverse topic literature by including different definitions and perspectives from expert authors and public and private organizations. The implementation of metaverse platforms by DMOs must consider the features and needs of each city to develop a model of sustainable tourism development that is both quality and respectful of the environment, as well as improving the quality of life of residents. Moreover, one of the major challenges currently facing the implementation of metaverse technologies in cities is related to interoperability, especially in the areas of jurisdictional, technical and usage by organizations and users. Therefore, governments and private companies involved in the development of the metaverse must collaborate to develop human-centric interoperability standards and respect social contracts and expectations (Yaqoob et al., 2023). From a commercial point of view, the metaverse is the perfect marketing tool to promote tourism cities and companies’ products and services because information and content uniquely adapt to the user’s characteristics and its avatar, as well as to sell personalized products and services (Hadi, Melumad, & Park, 2024).

In addition, this paper tries to highlight that the metaverse cannot be considered just a sales and marketing tool by tourism cities. The metaverse is a collective virtual shared space where residents, tourists and firms can participate in a wide array of experiences and interactions. This virtual scenario must be inclusive, community based and designed to help the most vulnerable people, such as elderly people, patients, people with reduced mobility and blind and visually impaired people. Social media platforms have played a pivotal role in transforming the way we communicate and connect with other people and organizations. For instance, avatars developed by users on the metaverse platform are shown in a fun way, and this digital profile removes possible prejudices by other users. On the contrary, the protection of young people who are hidden by avatars is an important issue that needs to be tackled by governments and educational institutions.

8. Practical implications

This study also offers some practical implications. There are challenges and opportunities in the metaverse for tourism cities and governments. Dwivedi et al. (2022) stated that little attention has been focused on security and privacy in the metaverse. Therefore, cybersecurity protocols must be implemented by governments and private organizations to ensure that users and systems are protected against possible vulnerabilities, cyberthreats and cyberattacks. Furthermore, national and regional governments need to know what governance models and principles are suitable for the metaverse and their tourism cities, as well as the risks and legal and ethical consequences of the metaverse technology in their commercial and governmental operations. Indeed, the European Union and national governments must regulate and establish immediate laws and legal mechanisms to protect users and companies on metaverse platforms.

The metaverse presents legal challenges related to enforcing laws across borders, lack of regulation and consumer protection for companies and DMOs (Dwivedi et al., 2022; Yaqoob et al., 2023). Today, there are no laws that protect users in the metaverse scenario. The European Commission will develop a vision for emerging virtual worlds like metaverses based on respect for digital rights and EU laws and values. The main objective of this metaverse law is that this virtual platform can be used safely and with confidence by users and companies (European Commission, 2023). Government agencies should establish
mechanisms to promote dialogue with travel and tourism industry stakeholders to ensure commercial transactions in the metaverse, including the role Central Bank Digital Currencies might have in the metaverse (Meta, 2022).

As concerning the opportunities of the metaverse, this immersive and interactive digital tool will provide unlimited possibilities to the tourism cities, marketers and creators of contents. For instance, tourism cities’ metaverse platforms can generate new online marketing revenue through sponsorship, advertising and digital billboards. Besides, for travel and tourism companies (e.g. airlines, tour operators, OTAs, hotels and theme parks, among others), finding a space in the metaverse to place their ads to appeal to user attention and promote personalized experiences will be an added value for firms and tourism cities. To be successful in the process, marketers and creators of content must understand the characteristics of the metaverse as a medium to generate revenue. For instance, DMOs should use the metaverse to sell tickets to all of the city’s tourist attractions. To sum up, city tourism practitioners can leverage the metaverse to enhance the well-being of residents and attract tourists through personalized immersive experiences, which they perceive to be valuable and for which they are willing to pay.

References


Further reading


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