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Resetting Cultural Heritage Policy and Management Practice - Moderating Mass Tourism in Post-Pandemic Times

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ABSTRACT

Before the COVID-19 pandemic in early 2020, mass tourism was the main driver for the unusual growth of tourist accommodations in World Heritage Cities (WHC). This paper investigates how the mass tourism pause due to the pandemic can be considered an opportunity for resetting cultural heritage policy and management practice in WHC. Selecting the Historic Centers of Siena and Florence as the case studies, we explain how the two cities experienced an unusual increase in tourist accommodation before the pandemic. By reviewing scenarios for the COVID-19 virus outbreak in Italy, we argue insights for a new cultural heritage policy and management framework that can effectively moderate mass tourism in WHC. Our findings suggest the new policies should be initiated based on a multi-sectoral and multi-level approaches in planning practice. By creating a dynamic tourism map on the macro level, international cultural heritage and tourism organisations may agree on policies that mitigate tourist flows in vulnerable WHC. On the micro-level, there is a demand for regional directives that monitor the growth of tourist accommodations in WHC. Furthermore, local communities' engagement in decision-making may open new opportunities to work more collaboratively on the social or environmental challenges that exist in WHC.

KEYWORDS

World heritage; cultural heritage policy; management; mass tourism; COVID-19 pandemic

Introduction

Some studies criticise the static and export-oriented view on heritage conservation and recommend abandoning the idea that cultural heritage is constantly under threat and needs more legal protection.¹ However, the intensity and type of risks that threatening the cultural heritage sites' tangible and intangible features can be varied and distinct, like climate change,² natural hazards³ and mass tourism.

Tourism is an industry with considerable economic benefits. The World Tourism Organization (UNWTO) report shows that international visitor arrivals had increased from 25 million in 1950 to 674 million in 2000. Such a rapid global increase has roughly doubled in the last two decades, and 1.5 billion international traveller arrivals were

recorded in 2019.⁴ The UNWTO had also predicted a four percent increase in global tourist arrival for 2020.⁵ However, this projection was abolished due to the COVID-19 pandemic occurrence.

Cultural tourism has been introduced as an essential factor for local development in historic cities and rural areas.⁶ In this regard, designation as a UNESCO World Heritage Site may maximise a site's expected cultural and economic advantages. In addition, cultural tourism can support cultural heritage conservation practices, contribute to the transmission of cultural values, and encourage sustainable environmental practices.⁷ To promote cultural tourism, several studies have introduced various approaches⁸ and planning strategies⁹ for the protection of tangible and intangible features in WHC.¹⁰ As correlations between cultural heritage and community strengthen the sense of place and identity,¹¹ planning strategies for boosting the place image can attract more international or domestic visitors to the site.¹² In terms of social benefits, a few studies explored how cultural heritage reputation is an essential component for visitor attraction and citizens' quality of life.¹³

However, in the case of unsuitable management, mass tourism may impose overwhelming social and environmental impacts on local communities.¹⁴ Reports show that the World Heritage Committee has been troubled by several tourism-related challenges in WHC, basically in terms of social and environmental issues.¹⁵ The Committee, in its World Heritage Tourism Programme, declares that although cultural tourism is a driver for the sustainability and conservation of cultural and natural heritage sites, it should be managed effectively.

Mass tourism may be considered a consequence of Globalisation, where competitive global marketing has provided more low-cost and fast services to international tourism.¹⁶ Mass tourism refers to a destination that the citizens' quality of life or visitors' spatial experience has declined notably due to the excessive numbers of tourists on the site.¹⁷ Therefore, this phenomenon contrasts with cultural tourism objectives that aim to protect the cultural heritage values under the tourism economy's shield.¹⁸ Mass tourism has generated new housing challenges in many European WHC in the last few years. The outcomes of a study in 2017 show that two in five European citizens suppose that mass tourism has transformed the intangible features in historic sites and acts as a threat to these sites' function and sustainability. They believe that the fast increase in tourist accommodations due to mass tourism has led to housing issues and influenced local identity.¹⁹ For example, research in Barcelona showed that residents are forced to pay more when renting accommodation due to the high demand generated by mass tourism.²⁰

Since the last year (2020), there has been growing concern about mass tourism impacts on the sustainability of European WHC. The well-known city of Florence, for instance, is one of these affected cities. In 2012, the Outstanding Universal Value of the Historic Centre of Florence's statement was reviewed and revised by the Florence World Heritage and UNESCO Relationship Office at the Municipality of Florence based on a new format, which was suggested by the UNESCO Advisory Bodies, including ICOMOS, ICCROM, and IUCN. The World Heritage Committee reviewed the submitted document WHC-14/38 COM/8E. The Committee affirmed and approved the Outstanding Universal Value of the Historic Centre of Florence's retrospective statement in its 38th session in June 2014. The new document recognises some of the most critical new threats to the Historic Centre of

Florence's integrity linked to the impact of mass tourism like a decrease in residents, an increase in traffic, and environmental pollution. In 2016, mass tourism impacts were recognised and mentioned again during the site management plan's update.²¹

Since 2017, the World Heritage and UNESCO Relationship Office at the Municipality of Florence, in collaboration with Heritage Research Lab at the University of Florence, has launched a few projects to solve the mass tourism challenge and its impacts on the Integrity of the Outstanding Universal Value in the Historic Center of Florence. One of these projects, *Study on the Load Capacity of the Historic Centre of Florence*, aims to prove full awareness of the threat induced by mass tourism to the Historic Centre and the launch of moderation and regulatory measures.²² In this regard, the Atlas-World Heritage is another research project to address the challenges of mass tourism in five WHC in Europe, including Florence. Florence's findings revealed that the city has remarkably undergone an unusual increase in low-quality and illegal tax-system tourist accommodations in recent years.²³

Many WHC in Italy have been associated with mass tourism experiences in the last few years, which threaten the Outstanding Universal values at these sites and has brought housing challenges to these cities. This study considers the COVID-19 pandemic as an opportunity to revise the housing policies in Italian WHC to ensure these cities remain socially sustainable in the post-pandemic time. We explore how the Historic Centers of Florence and Siena were affected by mass tourism and how it can help urban and regional planners enhance the city's resilience and quality of life in the post-pandemic time.

Methodology

This study uses comparative case studies to improve the resilience and quality of life of WHCs in the post-pandemic time. Comparative case studies include the analysis of similar patterns across two or more cases that have a common goal. For this purpose, two Historic Centers of Florence and Siena were selected as the case studies. We collected data using a mixed-method, which includes the use of quantitative and qualitative data. In terms of the research process, we first explore how mass tourism has led to the unusual growth of illegal-tax system tourist accommodation in Florence and Siena. Our data collection tools are maps analysis, municipality statistics, and questionnaires in this step. In the following, we explain various theories about the reasons for the outbreak of the COVID-19 virus in Italy. We then completed this section by debating the different scenarios about the COVID-19 pandemic's future, which created the opportunity to understand the relationships between illegal tourist accommodation and the risk of a virus outbreak in WHCs. Considering the social and environmental aspects of sustainability, we suggest policy insights for a novel management framework that may moderate mass tourism pressure and improve resilience and quality of life in WHC.

The Historic Centers of Florence and Siena

Florence is a city in Central Italy and the Tuscany region's capital. In 2020, Florence's population was estimated at 360,000 people, for Municipality core, and 708,000 for Metropolitan area. Florence's residents have an average age of 42, lower than the Italian population's average age, which is 45.7 years. The Historic Center of Florence can

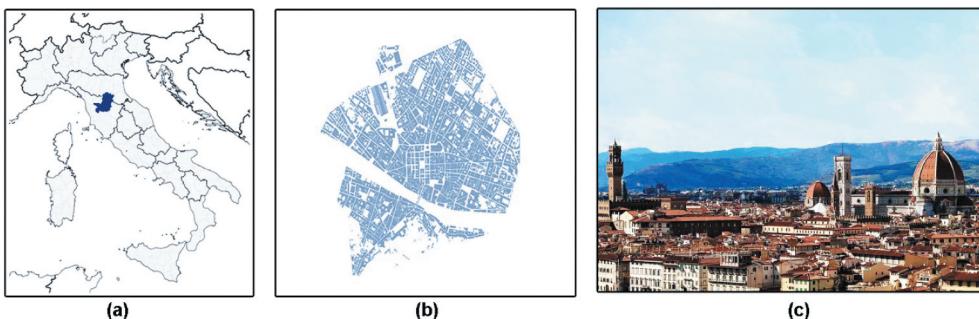


Figure 1. The historic city of Florence in Italy; (a) The Tuscany region in Central Italy; (b) The Historic Center of Florence;²⁵ (c) The Santa Maria del Fiore Cathedral.²⁵

be regarded as an exceptional historical and cultural urban achievement, the outcome of long-lasting creativity, encompassing many sculptures, churches, historic buildings, and art masterpieces. Its 600 years of exceptional artistic activity can be observed in the Santa Maria del Fiore Cathedral, the Uffizi Palace, and the church of Santa Croce, followed by the works of Michelangelo, Brunelleschi, and Botticelli (Figure 1). Florence had a remarkable impact on the development of Renaissance fine arts and architecture in Italy and Europe. With an area of 505 hectares, the Historic Centre of Florence was declared by UNESCO as a World Heritage Site in 1982.²⁴ While a candidate site needs to meet at least one of the ten selection criteria to be eligible for designation as a World Heritage Site, the Historic Center of Florence has met five criteria, which privilege it as an exceptional example in the world.

Siena is a historical city in Central Italy. Located in the Tuscany region, Siena is the province of Siena's capital. In 2020, Siena's population was estimated at 54,000 people, for Municipality, 120,000 with hinterland, and 58.2% of Siena's residents have an age range between 18 to 64 years old.²⁶ Siena is an excellent medieval city that has conserved its historical integrity and quality. Siena significantly impacted art, architecture, and city planning principles in Italy and Europe during the Middle Ages. The entire city of Siena was built around the Piazza del Campo (Figure 2). Siena has conserved its Gothic features, which were acquired between the 12th and 15th centuries. In this period, Siena's artists like

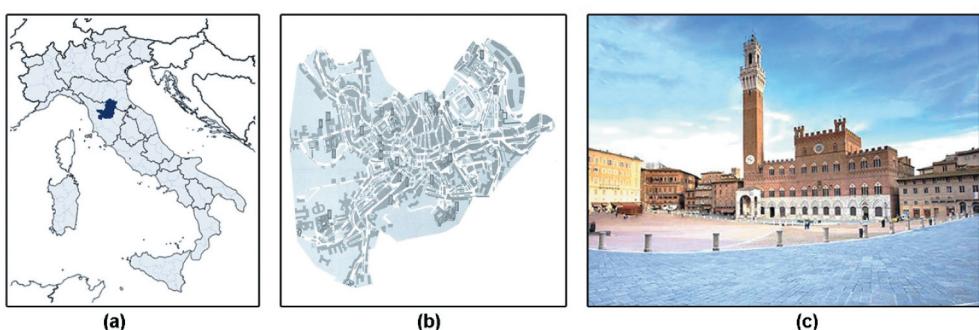


Figure 2. The historic city of Siena in Italy; (a) The Tuscany region in Central Italy; (b) The Historic Center of Siena;²⁷ (c) The Piazza del Campo.²⁷

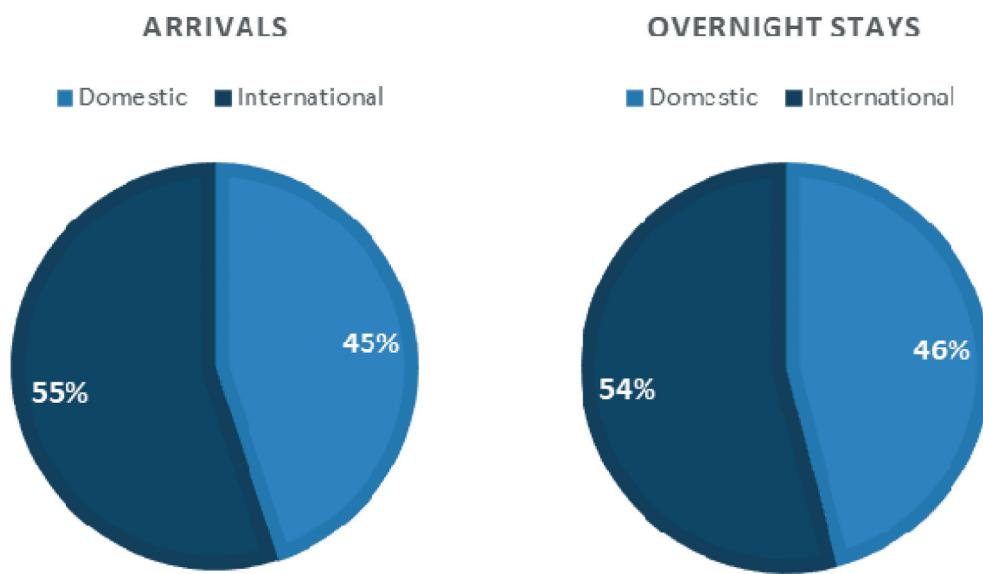


Figure 3. Tourist flows in the Tuscany region.²⁸

the Lorenzetti brothers and Duccio influenced the art principles in Italy and Europe. With an area of 170 hectares, the Historic Center of Siena was declared by UNESCO as a World Heritage Site in 1995. The Historic Center of Siena has met three UNESCO site selection criteria, which privilege it as a globally exceptional example. Siena and its Historic Center are viewed as popular tourist destinations for their outstanding cultural values. In 2008, the city was one of Italy's most visited tourist destinations, with more than 163,000 international visitors. It is a city well-known for its medieval cityscape, museum, and arts.

Tourism Statistics in the Tuscany Region

Each year, it is estimated that the number of overnight stays in official establishments surpasses 44.5 million in the Tuscany region. Considering the demand and increase in unofficial accommodation, this estimation may reach 90 million overnight stays in total. In the Tuscany region, tourist flows are divided equally between foreigners and domestics, while foreigners slightly outnumber Italians: 55% of arrivals and 54% of those present in total (Figure 3).

Statistics show that, on average, Italian visitors stay 3.6 nights in the region, and this length is 3.4 nights for foreigners. Also, the months in which there are notable inflows of travellers vary from April to October.²⁹

Mass Tourism's Impact on Florence

The statistics provided by Florence's municipality show the city of Florence had a 28% increase in tourist presence from 2012 to 2019. This trend continued and exceeded by eight percent more in 2016 and 2017, and in just seven years 2012/2019 increases by almost 40%. The trend collapses in 2020 due to the effect of the pandemic. (Table 1).

Although tourism is assumed to achieve sustainable development goals, it can also easily disrupt the WHC's functionality and pose new societal and environmental pressures. In Florence, mass tourism has established a new trend in which city apartments are unusually changing to tourist accommodations.³¹ This phenomenon is a threat to the Outstanding Universal Value of Florence and has notably influenced the real estate market in the city. Mass tourism is a multi-dimensional and complex phenomenon that may threaten the inhabitants' quality of life. Due to historic towns' limited capacities, the unmanaged increase of international tourism has posed several environmental pressures to these places like transportation services and air pollution.³² Besides, mass tourism has driven new societal issues in World Heritage Sites regarding security concerns and citizens' rights to the city.³³ Accordingly, mass tourism can easily revoke the social, economic, and environmental functionalities in WHC, and in its worsening scenarios, it can raise social conflicts between residents and visitors.

As the COVID-19 pandemic has appeared as a new management challenge, WHC needs a new management framework to moderate the risks and improve residents' quality of life in tourist destinations.³⁴ In Florence, the increase in tourism has led to the unusual growth in illegal tourism accommodations. [Figure 4](#) shows how mass tourism consumes the city's houses and infrastructures, generating a socially and environmentally fragile place.

In Florence, mass tourism has been a significant factor in converting residential buildings into informal tourist accommodations. Many tourist dormitories have been founded based on an illegal tax system and inadequate health quality conditions. In addition to the housing challenges, monitoring the health quality of these illegal and rapidly growing accommodations can be challenging for city health organisations. By analysing the urban facades of dei Serragli in the Historic Center of Florence ([Figure 5](#)), Ridolfi showed that almost 35% of each house's space is allocated to tourist dorms.³⁵ Taking the COVID-19 pandemic's learning into consideration, this process' continuity means more vulnerability of WHC to epidemics and pandemics, as the city health organisations have limited resources to monitor these places' quality constantly.

In December 2018, the Department of Architecture at the University of Florence designed a questionnaire to understand how residents perceive Florence's image. The questionnaire was answered by 177 Florentine residents in the last week of the same December. Almost 70% of the participants believed finding affordable housing has been 'difficult' in Florence due to mass tourism and increased tourist accommodations ([Table 2](#)).

Table 1. Tourist presence in Florence³⁰.

| Year | Total presences | Extra-Hotel presence | Hotel presence |
|------|-----------------|----------------------|----------------|
| 2012 | 7,983,799 | 1,620,111 | 6,363,688 |
| 2014 | 8,684,934 | 1,902,964 | 6,781,970 |
| 2015 | 9,215,038 | 2,112,332 | 7,102,706 |
| 2016 | 9,425,744 | 2,384,107 | 7,041,637 |
| 2017 | 10,202,876 | 2,653,788 | 7,549,088 |
| 2018 | 10,701,340 | 3,006,280 | 7,695,060 |
| 2019 | 11,048,718 | 3,200,301 | 7,848,417 |
| 2020 | 1,271,969 | 575,597 | 696,372 |

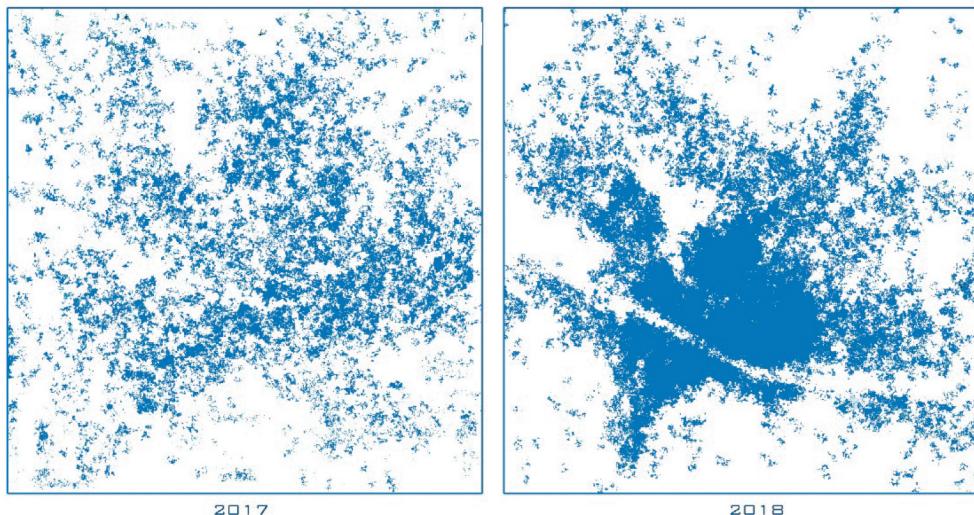


Figure 4. Unusual process of emerging informal tourist dormitories in Florence.³⁵

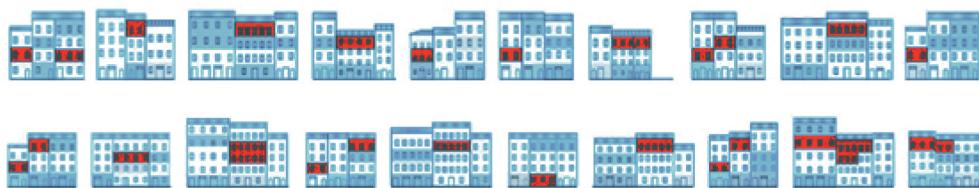


Figure 5. The urban facade of dei Serragli in the Historic Centre of Florence. Red rectangles show the informal tourist dormitories.³⁷

Table 2. Florentine residents' image of the housing challenge³⁸.

| Subject | Measure | Frequency Person | Frequency percentage |
|--------------------------|-----------|------------------|----------------------|
| Desire to stay | Yes | 119 | 69.20 |
| | No | 58 | 30.80 |
| Affordable accommodation | Not easy | 124 | 70.48 |
| | Easy | 53 | 29.52 |
| | Very Easy | 0 | 0 |

The residents supposed that many work openings are limited to tourist services, and seasonal changes in visitor flows make it 'difficult' to find a secure job in the city. Therefore, the city's tourist orientation has not been successful in meeting the surveyed group's social expectations.



Figure 6. Unusual process of emerging informal tourist dormitories in Siena.⁴⁰

Mass Tourism's Impact on Siena

According to the Municipality of Siena's statistics service in 2019, the accommodation establishments in the Municipality of Siena are 340 with an accommodation capacity of 7,834 beds, of which 46% are in hotel facilities and 54% in non-hotel facilities. There were increases in tourist arrivals and presences in Siena. The city recorded arrivals equal to 524,204 (+2% compared to 2018) and presences equal to 1,103,788 (+4% compared to 2018). In 2019, the hotel occupancy rate, percentage of bed use increased by two percentage points compared to 2018 (Figure 6). It is emphasised that the current data of the Tourist Observatory of the Municipality of Siena does not take into account the contribution provided by the new forms of hospitality. Starting from 1 March 2019, with the introduction of the obligation to register tourist rentals (private apartments for tourist purposes), the municipality, for the first time, surveys the flow of arrivals and presences of this type of accommodation.³⁹

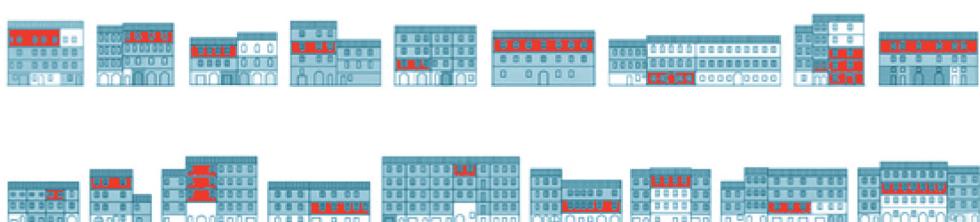


Figure 7. The urban facade of the Historic Centre of Siena. Red rectangles show the informal tourist dormitories.⁴¹

By analysing the Historic Center of Siena's urban facades ([Figure 7](#)), Kokoshi showed that almost 31% of each house's space is allocated to tourist dorms. Considering the COVID-19 pandemic learning, increasing illegal tourist accommodation means more vulnerability of WHC to epidemics and pandemics, as the city health organisations have limited resources to monitor these places' health quality.

The Outbreak of the Covid-19 Virus in Italy

After reports of several pneumonia samples in Wuhan in December 2019, a new Coronavirus was explored and termed COVID-19.⁴² The virus was never detected before its emergence in Wuhan in December 2019. The spread of dangerous respiratory COVID-19 was declared a pandemic by the World Health Organization in March 2020,⁴³ and it has recorded more than 2.03 million deaths by January 2021.⁴⁴ COVID-19 is a respiratory virus that spreads fundamentally through in-person contact (droplets of saliva, coughing, and sneezing). Touching surfaces infected with the virus and then touching the nose, eyes, or mouth before sanitising or washing hands is another known way of transmitting the COVID-19 virus.⁴⁵

There are various speculations about how the COVID-19 virus spread in Italy and caused a national lockdown. Del Buono et al. ([2020](#)) recognised seven factors as the most important determinants for the spread of the virus in Italy, including the average age of the population, the efficiency of the health systems in crisis, accessibility to personal protective tools, lack of risk plans, viral mutation, timely quarantines, and surveillance tests. They also highlighted the regional mobilities associated with the industries and tourist flows as supplementary possibilities for the outbreak of the COVID-19 virus in Italian regions.⁴⁶ Murgante et al. ([2020](#)) explained the high impact of COVID-19 on Italy in terms of geographical, planning, and medical perspectives. Besides the rapid mobility through the country's fast trains, they added Nitrogen-related air pollutants as a potential factor for the virus outbreak in Northern Italy and the Po Valley area.⁴⁷ In addition, the COVID-19 pandemic has paused mass tourism impacts on WHC in Italy. [Figure 8](#) shows that Italy has recorded a likely 60 percent decrease in its tourist arrivals in 2020. With -68.7%, Florence is the second Italian city in terms of minor tourist arrivals in 2020. Therefore, Italian WHC have an excellent opportunity to revise their own housing policies to support their residents' expectations and welfare.

The World Health Organization and national health authorities have introduced detailed recommendations, like mask-wearing, social distancing, and sanitising hands to enhance personal safety. The national quarantines' learning due to COVID-19 globally and in Italy highlights the tips below.

- (1) The novel virus' origin can remain unknown for a long time, and it can be spread more rapidly through in-person interactions;
- (2) The virus diseases know no geographical boundaries and can spread rapidly in more regions;
- (3) Lack of health protocols and monitoring accelerates the incidence of the virus disease;
- (4) Preventive measures and directives are essential in reducing casualties.

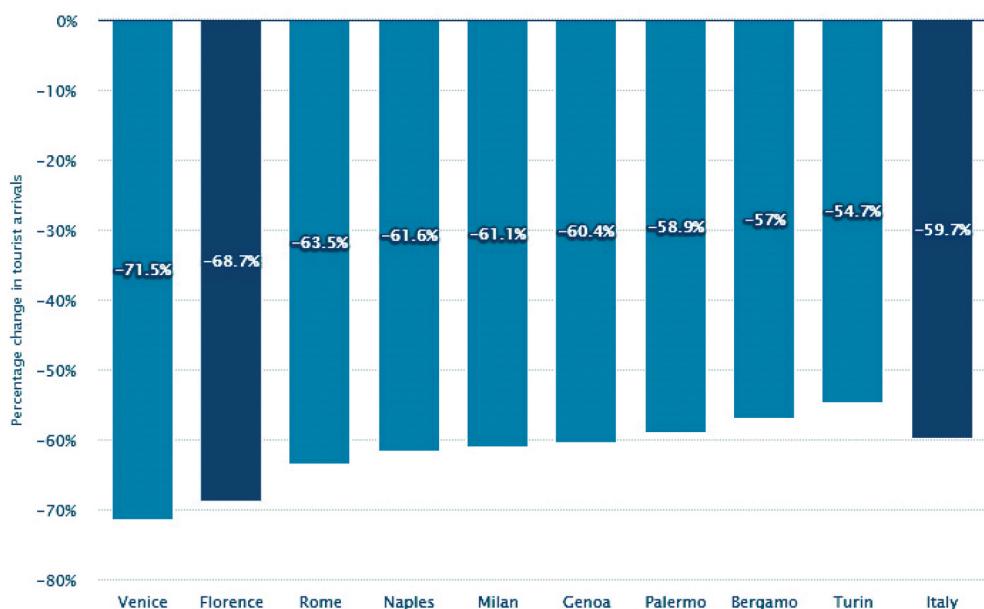


Figure 8. The COVID-19 pandemic impact on tourist arrivals in Italy in 2020.⁴⁸

WHC during the COVID-19 Pandemic

Many countries endeavour to control and slow the outbreak of the COVID-19 virus using various measures. These activities include quarantine, limiting social gatherings and on-site working, closing public leisure services like restaurants and pubs, and closing schools and universities.⁴⁹ The COVID-19 pandemic's key learning is the importance of social distancing to limit the spread of the virus, which may continue for an unknown period in the post-pandemic time due to the uncertainty (Table 3).

As Table 3 shows, there are different scenarios about the COVID-19 pandemic's future, making it challenging to predict the return time to the routine. The pandemic is an excellent opportunity for the WHC in Europe to moderate the long-lasting housing issue in these sites and promote the health level of these cities in terms of novel risks. The implementation strategies for the protection of WHC have been limited to minimising citizen movements to the strict minimum to lessen transmission risks.⁵¹ However, WHCs require a novel management framework that enhances their resilience in terms of mass tourism and pandemic.

Before the COVID-19 pandemic, Florence implemented several strategies to manage the pressure of mass tourism in the city. Through novel regulations, the opening of new bar-restaurant activities has been limited in the Historic Center of Florence. This measure puts a three-year delay for the opening of food and beverage services. The Firenze Card is used as a promotional tool for spreading tourism in the whole city. The card allows entrance to 72 museums, historical monuments, villas, and gardens.⁵² Indeed, there is a lack of specific directives of regulation that restricts the activity of illegal tourist

Table 3. The future of the COVID-19 pandemic⁵⁰.

| Scenario | Risk Level | Hypotheses |
|----------|---|---|
| 1 | The pandemic subsides within the next two years, and after that, it may occasionally occur on a small, regional scale. | <ul style="list-style-type: none"> Pandemic control will continue to be relative and intermittent, as is currently seen in most world countries. Immunity after infection is fully adequate, stable, and widespread and prevents re-infection for at least two years. The coronavirus does not undergo a significant genetic mutation that makes it resistant to acquired immunity. Vaccination with significant coverage will not be possible soon. |
| 2 | The global epidemic will subside in successive waves over the next one to two years and, like seasonal flu and colds, will remain a seasonal disease with intermittent outbreaks in human societies. | <ul style="list-style-type: none"> Pandemic control will continue to be relative and intermittent, as is currently seen in most world countries. Post-infection immunity is short-lived and relative, lasting only up to nine months, after which the risk of re-infection increases. Genetic mutations that enable the virus to escape relative immunity are likely. Effective and widespread vaccination will not be possible soon, and global eradication will not be achieved through vaccination. |
| 3 | The global pandemic will subside for the next 18 months after a series of large-scale surgeries with the proliferation of safe people and extensive vaccination programmes, after which it may only occasionally occur on a small, local scale. | <ul style="list-style-type: none"> Control the pandemic with inadequate and intermittent measures and continue rapidly with extensive vaccination in six to eight months. Immunity should be maintained for at least one to two years after infection, especially vaccination, and to stop the spread by asymptomatic individuals. Important genetic mutations that enable the virus to escape existing and more pathogenic immunity should not be spread in the population. Effective vaccines will be available in another six months, and universal vaccination will be consistent and widespread. |

dormitories in the city. In other words, the post-pandemic era requires a robust management framework that protects public health in WHC by stopping the activity of illegal tourist accommodation.

Resetting Cultural Heritage Policies and Management of WHC in Post-Pandemic Time

Before the COVID-19 pandemic, Italy was placed in fifth place in terms of international tourist arrivals by the UNWTO.⁵³ Tourism development has been considered a potential tool for the protection of historical settlements in the Mediterranean region. For this purpose, Mediterranean countries have applied various strategies to develop cultural tourism activities. In Italy, for instance, the 'Diffuse Hotel' has been introduced as a strategy that allows travellers to visit Italy through a typical, historical, and comfortable hotel. It refers to a single hotel in which rooms are located separately to recover historical villages and towns. The European Community also encourages the establishment of 'Spread Hotels' to develop the economic capacity of depressed areas by financing refurbishment plans.⁵⁴ However, this narrative is entirely distinct and challenging in WHC.

The increase in low-cost flights has dramatically brought international tourism flows to WHC, especially in Europe. Mass tourism has generated novel and important social outcomes, such as affordable housing problems. Many WHC like Florence, Venice, Pompeii, and Rome have developed measures to manage tourist arrivals in Italy. However, the site managers have gradually noticed that the implementation process is quite challenging and, in some cases, almost impossible. On the other hand, directing the visitor flows to other country areas has been implemented as a potential solution for managing mass tourism in WHC.⁵⁵ However, it is unclear if this strategy has been effective enough to mitigate the mass tourism pressure on the WHC. In Florence, for example, the survey group believed that finding affordable housing is still 'very difficult' in this city. In this regard, many Italian scholars have argued that limiting the oversupply of tourist accommodations in WHC needs a new policy and management framework.⁵⁶

After observing the first COVID-19 cases on 30 January 2020, Italy's government commanded a national quarantine on 9 March 2020, limiting the inhabitants' mobility except for essential needs, like food supplies, permitted work, and medical care.⁵⁷ There are several scenarios about the causes of high infection and death rate in Italy due to the COVID-19 pandemic. For example, Del Buono et al. (2020) introduce some potential determinants for the virus' rapid and unusual outbreak in Italy, namely community ageing, the health system's efficiency, access to personal protective tools, viral mutation, disaster plans, timely quarantine, and less rate of testing. They also reflect the national mobility and visitor flow as supplementary causes for the outbreak of the COVID-19 virus in Italian regions.⁵⁸ Besides, Nitrogen-related air pollutant is another speculation for the fast and severe spread of the virus in the country.

Our analysis in the Historic Centers of Florence and Siena reveals how illegal tax-system tourist accommodations increased unusually in these two cities before the COVID-19 pandemic. This process has affected residents' social welfare in terms of finding affordable housing in these cities. Besides, many of these tourist dormitories are working under the illegal tax system. Our study shows a lack of regional directives in Italian WHC that ban these accommodations' activities. The rapid growth of illegal accommodations implies that health institutions cannot monitor their health status. It means that in addition to the housing challenge, public health is a secondary concern for the rapid growth of illegal accommodations in WHC. Finally, accommodating many tourists in the WHC means less social distancing in public spaces in the post-pandemic time. Hence, according to the pandemic's learning, one may consider how mass tourism continuity can expose WHC to infectious diseases.

To enhance the WHC's resilience and quality of life in the post-pandemic time, two simultaneous actions should be performed at the local and international levels. The Italian government's performance to prioritise the citizens' safety over economic interests could be followed as a public strategy for supporting social welfare and ensuring health safety in WHC. In this regard, related cultural heritage and tourism international organisations, like UNESCO and UNWTO, need to agree on policies that reduce low-cost transportation services to WHC suffered by mass tourists. Although such legislation can significantly reduce international tourist arrivals in WHC, it is unclear to what extent airlines and the tourism sectors tend to follow the new regulations, specifically in difficult economic situations, like the COVID-19 pandemic. On the micro-level, WHC requires participatory policies that stop the illegal tourist accommodation's activity. Such a limitation by itself

has a significant role in decreasing international tourism arrivals to the city. However, community engagement is understood as comprising a one-way, top-down educative process. The issue with this approach is that it does not encompass a two-way comprehension of heritage values, especially from the vision of communities that inhabit and engage with it daily.⁵⁹ Therefore, to avoid ‘a general top-down policy’, the important consideration on the micro-scale should be reflecting the local community’s voice in the decision-making process, besides the upscaling of the inter-disciplinary skills to implement them.⁶⁰ This micro-scale engagement may open new opportunities to work more collaboratively on other social or environmental challenges⁶¹ from a broader vision, making WHCs more resilient. For instance, in addition to improving housing challenges and converting the illegal tax-system tourist accommodations to city apartments, this approach may help health institutions dedicate their resources to monitoring city hotels more effectively. Nevertheless, to what degree are property landlords ready to devote economic interests to public welfare in WHC is an unanswered question.

Conclusion

Before the COVID-19 pandemic in early 2020, mass tourism was a common challenge in many European WHC. In Italy, this phenomenon has led to the unusual growth of illegal tax-system tourist accommodations, making it difficult for residents to find affordable housing. This study reflects the mass tourism pause due to the COVID-19 pandemic as an opportunity to enhance the resilience and quality of life of WHCs in the post-pandemic time by resetting policy and management practices in WHC. By explaining the reasons for the unusual growth of tourist accommodations in Florence and Siena, we argued how this trend’s continuity might threaten the quality of life in WHC in post-pandemic time.

We recommend that new cultural heritage policies adopt a multi-sectoral and multi-level approach to moderate the long-lasting issue of mass tourism in WHC effectively. While macro-level policies need the agreement of international organisations, new cultural heritage policies should reflect the local communities’ voice at the micro-level. This two-way communication may open new opportunities to work more collaboratively on other social or environmental challenges in WHC in post-pandemic time.

Nevertheless, the recession due to the COVID-19 pandemic will remain the main barrier, which means this approach’s success depends on to what extent the tourism industry (at the macro-level) and property owners (at the micro-level) are ready to accept this shift.

Notes

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3. Dastgerdi et al., “Heritage Waste Management,” 76–89
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5. World Tourism Organization, "International Tourism Growth Continues to Outpace the Global Economy," 2.
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Authors' contributions

The authors contributed equally to this work. Both authors read and approved the final manuscript.

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