









REVIEW

Challenges and Strategies for the Integration of Cultural Heritage in Urban Sprawl

Desafíos y Estrategias para la Integración del Patrimonio Cultural en la Expansión Urbana

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ABSTRACT

Objective: to describe the methods of conservation and transformation of cultural heritage through a review of academic papers, focusing on how these are integrated into sustainable urban development.

Method: an exhaustive narrative review of the scientific literature was carried out, using databases such as Scopus, Science Direct and SciELO. Specific terms related to “heritage”, ‘culture’ and “development” were used, and Boolean operators were applied to refine the search. The review covered a period from March to April 2024, considering articles published between 2021 and 2024, and resulted in a corpus of 10 relevant articles after a filtering process.

Results: the results presented include an analysis of the strategies and approaches that different studies have used to address cultural heritage conservation. Several articles were identified that discuss both tangible and intangible heritage, highlighting the importance of social participation and the multidisciplinary approach.

Conclusions: heritage conservation and urban development are not opposites; they can complement each other if integrated into urban planning. The need for an integrated approach that balances heritage conservation with the demands of economic growth and tourism is emphasized. The article stresses the importance of conducting impact assessments before initiating development projects that may affect cultural heritage, which helps to minimize or avoid damage. The most important lesson is that it is essential to adopt sustainable approaches to urban development in order to protect the cultural and heritage identities of cities.

Keywords: Urban Revitalization; Cultural Heritage Integration; Urban Sprawl; City Growth.

RESUMEN

Objetivo: describir los métodos de conservación y transformación del patrimonio cultural a través de una revisión de documentos académicos, enfocándose en cómo estos se integran en el desarrollo urbano sostenible.

Método: se llevó a cabo una revisión narrativa exhaustiva de la literatura científica, utilizando bases de datos como Scopus, Science Direct y SciELO. Se emplearon términos específicos relacionados con “patrimonio”, “cultura” y “desarrollo”, y se aplicaron operadores booleanos para refinar la búsqueda. La revisión abarcó un período desde marzo hasta abril de 2024, considerando artículos publicados entre 2021 y 2024, y resultó en un corpus de 10 artículos relevantes tras un proceso de filtrado.

Resultados: los resultados presentados incluyen un análisis de las estrategias y enfoques que diferentes estudios han utilizado para abordar la conservación del patrimonio cultural. Se identificaron varios artículos

que discuten tanto el patrimonio tangible como el intangible, destacando la importancia de la participación social y el enfoque multidisciplinario.

Conclusiones: la conservación del patrimonio y el desarrollo urbano no son opuestos; pueden complementarse mutuamente si se integran en la planificación urbana. Se enfatiza la necesidad de un enfoque integral que equilibre la conservación del patrimonio con las demandas del crecimiento económico y el turismo. El artículo subraya la importancia de realizar evaluaciones de impacto antes de iniciar proyectos de desarrollo que pueden afectar el patrimonio cultural, lo que ayuda a minimizar o evitar daños. La lección más importante es que es esencial adoptar enfoques sostenibles en el desarrollo urbano para proteger las identidades culturales y patrimoniales de las ciudades.

Palabras clave: Revitalización Urbana; Integración del Patrimonio Cultural; Expansión Urbana; Crecimiento de las Ciudades.

INTRODUCTION

Cultural heritage plays an essential role in shaping the urban fabric, providing a tangible dimension that connects collective identity with communities' history and material memory. This heritage, manifested through buildings, public spaces, monuments, and cultural landscapes, not only represents an aesthetic and symbolic legacy but also shapes the physical and emotional framework in which contemporary urban life occurs. In urban development, cultural heritage's conscious and respectful integration becomes a strategic axis to guarantee cities' social, economic, and environmental sustainability.

However, the dynamics of urban growth pose significant challenges to heritage preservation. Pressure for real estate expansion, land use transformation, and infrastructure modernization can compromise the integrity and authenticity of cultural assets if not managed through integrated urban planning policies. It is, therefore, essential to promote intervention models that balance economic growth with heritage conservation and enhancement by implementing urban regeneration strategies that incorporate heritage sustainability criteria. These strategies should include the physical rehabilitation of historic buildings and spaces and the revitalization of their social and economic functions, encouraging community inclusion and the generation of local opportunities through cultural tourism and the creative industry.⁽¹⁾

In this framework, cultural heritage is positioned as a driver for sustainable urban development, providing tools and methodologies that integrate conservation with urban innovation. Urban planning and design must effectively incorporate heritage into its processes, considering its tangible and intangible value and promoting its interaction with the contemporary built environment. Successful case studies offer valuable insights into how heritage protection can be harmonized with the demands of urban growth, proposing interdisciplinary approaches involving architecture, history, sociology, and urban economics.⁽¹⁾

Historic cities such as Rome, Venice, and Kyoto exemplify the organic and harmonious evolution between heritage architecture and modern urban growth. Urban design has developed over centuries in these contexts, gradually integrating cultural and architectural elements that reflect the city's identity and historical continuity. Preserving their traditional urban fabric, characterized by narrow streets, emblematic squares, and buildings of high historical value, has required adapting architectural practices and regulations that allow for the coexistence between the historical legacy and new urban demands.⁽²⁾ The experience of these cities underlines the importance of a contextualized approach, where heritage protection is understood as a dynamic process involving both physical preservation and social and cultural sustainability.

In the case of Spain, the diversity and extent of cultural heritage present a complex challenge for urban planning and management. With more than 15 000 cultural assets inscribed in different registers, ranging from historical monuments to urban ensembles and archaeological sites, heritage protection requires robust administration systems and coherent public policies contemplating its conservation, use, and adaptation to new urban contexts. The heterogeneity of heritage also demands the articulation of multiple scales of intervention, from the punctual restoration of buildings to the comprehensive management of urban heritage landscapes, promoting the active participation of local communities in decision-making.⁽³⁾

A relevant example of advanced heritage management is in the Po River district in Italy, where the local authority has implemented a comprehensive project to assess the vulnerability of cultural assets to adverse hydrological events, such as floods. This project involves the creation of a spatial database that geo-references approximately 125 000 heritage elements, integrating detailed information on their state of conservation, exposure, and risk. This system represents a fundamental tool for preventive planning, making it possible to prioritize protection actions and respond effectively to climate hazards, strengthening heritage resilience within the urban structure.⁽⁴⁾

In summary, properly integrating cultural heritage into urban development requires a holistic and

multidisciplinary approach that recognizes its multifaceted value - material, symbolic, social, and economic - and promotes adaptive and participatory conservation strategies. This approach must respond to contemporary urban growth pressures without compromising heritage authenticity and significance, making it a dynamic resource for urban identity, social cohesion, and long-term sustainability.

This review aims to provide a comprehensive overview of current methods and approaches to conserving and transforming cultural heritage in urban contexts based on a critical review of specialized academic production. It is hoped that this synthesis will enrich debate and design practice in architecture and urban planning, fostering innovative models that integrate heritage as a central element in the construction of resilient, inclusive, and culturally enriched cities.

METHOD

A comprehensive narrative review was conducted to explore and analyze the current scientific literature on heritage, culture, and development. For this purpose, the specialized databases Scopus, ScienceDirect, and SciELO, recognized for their broad coverage in social sciences, humanities, and architecture, were selected.

The search strategy was designed using specific key terms: 'heritage,' "culture," and 'development,' combined using Boolean AND and OR operators to maximize the precision and scope of the results. The search period was from March to April 2024, restricted to publications dated between 2021 and 2024, with no language limitations, to ensure the inclusion of international and multidisciplinary research.

Documents with a non-empirical character or that did not provide direct evidence for the object of study, such as case reports, interviews, letters to the editor, theses, and books, were excluded due to their specific nature or narrow focus.

The initial search yielded 20 potentially relevant articles. After eliminating duplicates and conducting a systematic content review, strict inclusion and exclusion criteria based on thematic relevance and methodological quality were applied. Finally, a corpus of 10 articles was constituted that meet the established parameters and form the basis for the analysis and discussion presented in this study.

RESULTS

Table 1. Keywords used in the literature search

Free language	Mesh term
Cultural heritage	Cultural heritage
Urban development	Urban development
Heritage conservation	Heritage conservation
Heritage	Heritage
Tourism	Tourism
Heritage and culture	Heritage and culture

For the present study, careful consideration was given to the provenance of demographic data and information related to the impact of cultural heritage on urban development and the time frame in which they were collected. Specific countries and areas were selected as reference cases, including emblematic neighborhoods or sectors of cities such as Venice and various localities in Italy, where socio-economic variables were independently obtained and directly linked to their heritage richness. Most of the literature reviewed focuses on the interrelationship between cultural heritage and urban development.

Table 2. Articles consulted

Author	Target	Results
Pittaluga D.; Rescic S.; Fratini F.	Establish strategies that address both tangible and intangible heritage, involving different disciplines and promoting social participation.	A strategy was established to address the issue of intangible heritage.
Bailliet E.	Will look at two key approaches to conserving the Lugo City Wall: liberation and restoration.	Throughout the history of Spain and, in particular, of its cultural heritage, there has been a coherence maintained over time in relation to the type of interventions carried out.
Tómmerbakk Sorensen M.; Vargas Díaz J.P.; Herrera González E.A.	Analyse the data required to promote an optimal conservation proposal.	Lack of awareness of the importance of these resources, which when complemented allow for more accurate interpretation.

Franco G.; Casanova M.	First approach to developing a new Conservation and Management Strategy for a site inscribed on UNESCO's World Heritage List.	A strategy for conservation, and how to recover the culture, was discussed.
Vinko Mustra ; Blanka Skrabi ; Smiljana Pivcevi	Understand the impact of cultural heritage on tourist attraction and what is its main role in this process.	Tourism demand is not unambiguous: domestic tourist arrivals play a significantly positive role, while foreign tourist arrivals negatively affect regional economic resilience.
Miriam Menchero	To carry out an analysis of the most outstanding projects in the aforementioned area, with the aim of drawing conclusions that shed light on how these initiatives have evolved in the region.	The consideration of monument and historic centre in Latin America has been reinforced by the actions of international cooperation.
Giovanni Ianniello; Gemma Cánoves	It consists of examining the phenomenon of gentrification that is driven by tourism and touristification.	The lack of information and the consequent lack of preparation to manage tourism in the early days, and the uniqueness of Venice's urban morphology have contributed to the phenomenon of "touristification", which today is spoiling the city and its culture..
Chiara Arrighi, Francesco Ballio, Tommaso Simonelli	Analyse the potential impact of floods on cultural heritage.	The powers to prevent flooding of cultural heritage were analysed.
María José Pastor Alfonso	Interpreting human beings in the environment in which they have developed and continue to do so.	Governments in virtually all countries are aware of the richness and value of cultural heritage as a tourism option, while at the same time being aware of the accelerated deterioration of cultural heritage.
Schejtman, A.	Report on how cultural heritage is affected	It makes it known that culture is our identity.

A strength of this review is the selection of studies from diverse geographies, which provides a global perspective that enriches the understanding of the complex interactions between cultural heritage and contemporary urban development. This comparative approach allows for identifying common patterns and contextual particularities that enhance the applicability of the findings to different urban settings.

UNESCO World Heritage sites are key elements in the economic configuration of their regions. However, tourism impacts these sites in multifaceted ways. While domestic tourism generates economic and social benefits that strengthen local resilience, the pressure associated with international mass tourism can negatively affect economic and social sustainability, exacerbating the vulnerability of these territories.⁽⁵⁾

Venice, Italy, represents an emblematic case where the intensification of urban development has provoked significant processes of heritage deterioration. The expansion of tourist infrastructures, the exponential increase in mass tourism, and the overexploitation of resources such as groundwater have altered the city's physical integrity and social structure. Consequently, there has been a significant loss of historic buildings and an erosion of cultural authenticity linked to gentrification and socio-spatial displacement. This case underlines the urgent need for comprehensive and sustainable approaches that harmonize heritage conservation with economic and tourism demands, implementing public policies aimed at protecting historic sites and promoting responsible cultural tourism.⁽⁶⁾

The recognition of cultural heritage in urban development processes requires, according to Martín Juez and other authors, a transdisciplinary approach and complex thinking. This approach encourages inclusive collaboration between professionals and disciplines, facilitating the design of urban interventions that are heritage-friendly, socially sustainable, and environmentally responsible.⁽⁷⁾

Conflicts between heritage conservation and urban development are evidenced in concrete projects such as the Guadalajara Light Railway and the proposed cable car in Puebla. The impact on the historic urban landscape raises critical questions about how to achieve sustainable urban development that respects and values preexisting historic and cultural elements.⁽⁸⁾

Incorporating historic and cultural sites into urban design and spatial planning processes is essential to achieving an effective balance between urban development and heritage conservation. Urban sustainability must integrate heritage preservation as a critical component, employing construction techniques and design strategies that minimize environmental impact and ensure the continuity of cultural values.

Finally, cultural impact assessments before implementing extractive or large-scale projects are crucial. These assessments should comprehensively identify potential impacts on heritage assets, artifacts, and cultural practices, emphasizing Indigenous communities. A thorough understanding of these aspects facilitates the

implementation of mitigation measures that prevent irreversible damage to sacred sites and artistic elements of high symbolic relevance.

CONCLUSIONS

The review shows that cultural heritage conservation and urban development should not be conceived as opposing forces but as interrelated processes that can mutually enhance their benefits when integrated through strategic and multidisciplinary urban planning. The preservation of heritage values, together with economic and tourism promotion, is a key factor for the sustainable development of cities, ensuring the continuity of their historical-cultural identity and the quality of life of their inhabitants.

The analysis underlines the importance of incorporating rigorous and early cultural impact assessments in the urban planning phase. These assessments allow for the identification of risks and the establishment of preventive measures to avoid damage to tangible and intangible heritage. This proactive approach ensures that development projects respect and value cultural resources, promoting a balance between urban growth and conservation.

It is concluded that sustainable urban development models must go beyond mere environmental protection to include safeguarding and promoting cultural identity as essential pillars. Integrating conservation strategies into urban design not only reinforces cities' sense of belonging and authenticity but also enhances their economic and social dynamism. Architecture and urbanism are thus key agents in creating resilient urban environments that celebrate their historical and cultural heritage while innovating and adapting to contemporary challenges.

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