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## NEW CHALLENGES FOR XXI CENTURY CITIES

Global warming, ageing of population, reduction of energy consumption,  
immigration flows, optimization of land use, technological innovation

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TeMA Journal was established with the primary objective of fostering and strengthening the integration between urban transformation studies and those focused on mobility governance, in all their aspects, with a view to environmental sustainability. The three issues of the 2024 volume of TeMA Journal propose articles that deal the effects of global warming, the ageing of population, the reduction of energy consumption from fossil fuels, the immigration flows from disadvantaged regions, the technological innovation and the optimization of land use.

TeMA is the Journal of Land Use, Mobility and Environment and offers papers with a unified approach to planning, mobility and environmental sustainability. With ANVUR resolution of April 2020, TeMA journal and the articles published from 2016 are included in the A category of scientific journals. The articles are included in main scientific database as Scopus (from 2023), Web of Science (from 2015) and the Directory of Open Access Journals (DOAJ). It is included in Sparc Europe Seal of Open Access Journals, and the Directory of Open Access Journals.



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The cover image shows railway street in Hanoi, Vietnam (Source: TeMA Journal Editorial Staff).

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With ANVUR resolution of April 2020, TeMA Journal and the articles published from 2016 are included in A category of scientific journals. The articles published on TeMA are included in main international scientific database as Scopus (from 2023), Web of Science (from 2015) and the *Directory of Open Access Journals* (DOAJ). TeMA Journal has also received the *Sparc Europe Seal* for Open Access Journals released by *Scholarly Publishing and Academic Resources Coalition* (SPARC Europe). TeMA is published under a Creative Commons Attribution 4.0 License and is blind peer reviewed at least by two referees selected among high-profile scientists. TeMA has been published since 2007 and is indexed in the main bibliographical databases and it is present in the catalogues of hundreds of academic and research libraries worldwide.

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TeMA Journal of Land Use Mobility and Environment

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TeMA Journal was established with the primary objective of fostering and strengthening the integration between urban transformation studies and those focused on mobility governance in all their aspects, with a view to environmental sustainability. In other words, its mission is to contribute to developing a novel theoretical and methodological framework that transcends the boundaries separating these research domains and develops innovative solutions for issues now being tackled with methods and techniques rooted in the scientific culture of the last century.

The three issues of the 2024 volume of TeMA Journal propose articles that deal the effects of global warming, the ageing of the population, the reduction of energy consumption from fossil fuels, the immigration flows from disadvantaged regions, the technological innovation and the optimization of land use.

In this issue, the section "Focus" contains one research. The paper titled "Towards participatory urban planning: insights from citizens. Results of a survey on the local effects of climate change in Parma" by Ilaria De Noia, Barbara Caselli, Astrid Kemperman, Silvia Rossetti, Peter van der Waerden (University of Parma in Italy and Eindhoven University of Technology in Netherlands), presents and discuss the outcomes of a survey that investigated the perception of the citizens of Parma regarding climate change and its local effects. The analysis of collected data from 1,352 participants was subject to univariate and bivariate analyses, revealing the potential of surveys and citizens' involvement in shaping urban planning scenarios, acknowledging the citizens' role as bearers of knowledge and active stakeholders.

The section "LUME" (Land Use, Mobility and Environment) contains seven articles. The first, "The 15-minute cities concept applied to a Brazilian neighbourhood: case study of the cidade universitária Pedra Branca neighbourhood in Palhoça-SC", by Marcela Juliana Cargnin, Cintia de Castro Marino, Thaísa Leal da Silva (ATITUS Educação and UNINOVE in Brazil), carries out a bibliographic analysis to understand the theoretical and conceptual reflections on the 15-minute city concept. In the second part, the bibliographical research is correlated with the case study of the 'Cidade Universitária Pedra Branca' neighbourhood in Palhoça-SC, Brazil, enabling the understanding of the historical context of the place.

The second contribution is "Highlighting circular cities trends in urban planning. A review in support of future research tendencies" by Giulia Marzani, Simona Tondelli (Alma Mater Studiorum - University of Bologna in Italy). The article focuses on the interrelations between circular economy and urban planning. Through a scoping review and a bibliometric analysis, the study allowed to systematize and analyse the knowledge about the existing trends in planning circular cities and identify gaps for future research. What emerged is that a methodology to integrate circular economy principles into urban planning tools and procedures still does not exist in the literature, even though some recurrent decision-making frameworks are frequently used, and the topic is currently under debate.

The third article, "Right-based approach to urban accessibility: analysis of user perspective" by Cihan Ercetin (Spatial Applications Division Leuven in Belgium), aims to reveal the deficiencies of the perception that accessibility is a human right. The primary finding from both the theoretical review and these discussions is that accessibility must be perceived as an integrated concept with the inclusiveness of urban spaces, emphasizing the social and spatial dimensions of the issue.

The fourth article of the section, "Managing local knowledge about NBS in spatial planning. A group model building approach" by Stefania Santoro, Giulia Mastrodonato, Domenico Camarda (Italian Research Council and Polytechnic University of Bari in Italy), contributes to a current debate about methodological approaches to knowledge assessment to adopt in urban planning processes. Specifically, this paper proposes a Group Model Building approach for one of the activities carried out within the planning process for the Master Plan draft of the city of Brindisi, to support Natural Based Solutions (NBS) implementation.

The fifth article of the section, "The relationship between walkability and landscape values in transportation. Examination of landscape values in urban area transportation axes", by Zeynep Pirseliimoğlu Batman, Elvan Ender Altay, Sena Şengül (Bursa Uludağ University in Turkey), aimed to determine the relationship of walkability in transportation-based areas with the landscape values and to determine the potential of the area. In this context, the landscape values of Atatürk Street, which is located in the city core of Bursa and has both touristic, social, and commercial functions in pedestrian transportation, were evaluated based on walkability on the sidewalks, and a partially sufficient result was reached. Exceptionally, TeMA Journal published this article in its complete version despite exceeding the text limits set for regular articles.

The sixth article, "A scoping review of urban design and planning studies on the Covid-19 pandemic and elements of the built environment" by Pouria Boujari, Sarah Ghamar, Mahdi Nasirian, Fateme Ghapanchian, Mahtab Khajavi, Atieh Ghasemi, Mohsen Bahari, Yasin Delavar, Hamideh Garrousi (Karadeniz Technical University in Turkey and University of Florida in United State of America), aims to assess the role of the influential components of the built environment in the outbreak of Covid-19 by conducting a systematic literature review. The studies were searched through the Scopus database and screened and reviewed based on the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines. In total, 145 studies among 13,002 met the predetermined criteria.

The last article of the LUME, "The identification of rurality at Nuts-3 level in Turkey", by Seda Özlü, Sinem Dedeoğlu Özkan, Dilek Beyazlı (Karadeniz Technical University in Turkey), faces with the issue of rural-urban interactions. Rural and urban areas have a complex social, economic and natural structure that cannot be handled from a single perspective. This situation necessitates a multidimensional approach to rural areas and rurality. The study aims to address the socio-demographic and economic structure of Turkey's provinces with a multidimensional approach and to analyze them comparatively.

The Review Notes section proposes four insights on the themes of the TeMA Journal. The Urban planning practice section of Review Notes, "Energy transition and renewable energy policies in Italy", by Valerio Martinelli, examines the role of cities in the energy transition, focusing on Italian and European policies and regulations, with particular attention to Renewable Energy Communities (RECs). It analyzes the Renewable Energy Directive II and its transposition in Italy, highlighting challenges and the need for urban and energy planning coordination. The second section, "Strategies and instruments for active mobility: a European overview", by Annunziata D'Amico, offers an overview of the instruments and strategies implemented in Europe to encourage active mobility. Furthermore, some measures implemented in various European cities have been reported that promote the necessary, indispensable, and continuous process of improving urban mobility in the direction of environmental sustainability. The third contribution, "Global warming or global warning? A review of urban practices for adaptation to extreme heat", by Stella Pennino, provides an overview of the challenges posed by extreme heat in the context of climate change. Existing risks and adaptation threads are outlined, and international case studies of extreme heat adaptation are reviewed. Finally, three emblematic case studies of extreme heat adaptation are presented and discussed with the aim of fostering integration and sharing of know-how on the topic. Finally, the fourth section, "Exploring approaches and solutions for urban safety: a focus on childhood", by Tonia Stiuso, provides an in-depth

analysis of emerging issues in urban planning, mobility and the environment. This issue focuses on child-friendly, safe cities, presenting a comprehensive overview of the challenges and solutions related to urban safety for children. The section includes insights from different scientific sources and practical resources, highlighting effective approaches and innovative strategies. By examining recent books, journals and reports, the aim is to shed light on critical aspects of urban safety and child well-being, addressing issues such as community violence, road safety and the conditions of urban parks.

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