

# TeMA

Journal of  
Land Use, Mobility and Environment

The Times They Are a-Changin' and cities have to face challenges which may not be further postponed. The three issues of the 13th volume will collect articles concerning the challenges that cities are going to face in the immediate future, providing readings and interpretations of these phenomena and, mostly, methods, tools, technics and innovative practices (climate proof cities, zero consumption cities, car free cities) oriented to gain and keep a new equilibrium between cities and new external agents.

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THE CITY CHALLENGES AND EXTERNAL AGENTS.  
METHODS, TOOLS AND BEST PRACTICES

## THE CITY CHALLENGES AND EXTERNAL AGENTS. METHODS, TOOLS AND BEST PRACTICES

2 (2020)

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TeMA. Journal of Land Use, Mobility and Environment offers researches, applications and contributions with a unified approach to planning and mobility and publishes original inter-disciplinary papers on the interaction of transport, land use and environment. Domains include: engineering, planning, modeling, behavior, economics, geography, regional science, sociology, architecture and design, network science and complex systems.

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The Times They Are a-Changin' and cities have to face challenges which may not be further postponed. In particular, six of these challenges to modify and/or adapt cities physical shape, facilities distribution and their organization as complex systems: climate changes effects, population aging, reduction of fossil-fuel energy consumptions, immigration flows from disadvantaged regions, technological innovation, and optimization of land use. The three issues of the 13th volume will collect articles concerning the challenges that cities are going to face in the immediate future, providing readings and interpretations of these phenomena and, mostly, methods, tools, technics and innovative practices (defiantly defined as Climate proof cities, Zero consumption cities, Car Free cities, ..) oriented to gain and keep a new equilibrium between cities and new external agents. This new issue of TeMA journals collects seven scientific paper developed by researchers from Africa and Europe continents.

For this issue, the section "Focus" contains five contributes. The article, titled "The Berlin Mobility Lab Flaniermeile Friedrichstraße" by Stefan Lehmkuhler, Alena Büttner, Claudia Kiso, Marco D. Schaefer (German Environment Agency). This article outlines the German Environment Agency vision for "Tomorrow's Cities", briefly discusses the benefits of civic engagement in the realm of transport and outlines the concept for the mobility lab as well as its formation process concluding with the authors' views on the course of action taken in Berlin.

The second article, titled "Urban accessibility: the paradox, the paradigms and the measures. A scientific review" by Carmen Guida (University of Naples Federico II), Matteo Caglioni (Université Côte d'Azur). The paper presents a systematic review of the relevant literature regarding the development of the accessibility concept within the worldwide scientific panorama. It represents a part of a wider research focused on the elderly quality of life within urban environments and aimed at designing innovative tools for both public administrations and elderly citizens. The contribution presents the results of bibliometric analyses run in R studio through a tool, developed in 2017, named bibliometrix, on a sample of almost 5,000 documents published between 1959-2019.

The next article, titled "Assessment of Land use/Land cover Changes Linked to Oil and Gas Exploration Developments" by Mugendi David, Mireri Caleb, Kibwage Jacob, Oyoo Daniel (Kenyatta University, Kenya). The paper aimed at understanding land use/land cover changes (LU/LC) linked to oil and gas exploration under changing climatic conditions in South Lokichar Basin. The authors' opinion is that this knowledge will inform policy makers on appropriate sustainable vegetation cover management strategies for the sake of pastoralism practiced in the study area. The study assessed medium resolution spatial imageries acquired for the area in both rainy and dry seasons, before (2006-2011) and after (2012-2017) the oil and gas exploration developments begun.

The fourth article, titled "An investigation of challenges in the existing pattern of intra-city traffic in Enugu metropolis" by Ifeanyi F. Echendu, Francis O. Okeke, Rosemary C. Nnaemeka-Okeke (University of Nigeria). This study was carried out in order to examine the challenges in the existing pattern of intra-city traffic in Enugu metropolis with a view to proffering solution to traffic and transportation problems experienced in the study area.

The last article of this section, titled "Back from the future. A backcasting on autonomous vehicles in the real city" by Luca Staricco, Elisabetta Vitale Brovarone, Jacopo Scudellari (Politecnico di Torino, Italy). The evolution of mobility with specific regard to the transition towards the autonomous driving is undoubtedly one of those processes that bring with them a very high level of uncertainty. The paper deal with several issues and presents a reasoning on self-driving vehicles, evaluating their effectiveness and uncertainty by using the backasting technique applied to the city of Tourin.

The papers address the section "LUME" (Land Use, Mobility and Environment) are two. The first, titled "Building strategic scenarios during Covid-19 lockdown", by Stefania Santoro, Maria Rosaria Stufano Melone, Domenico Camarda (University of Bari, Italy). The paper explores evidences concerning agents' behaviour starting from a test, carried out during the pandemic event and based on decision making process simulation to develop possible future visions of the city of Bari. Two different contexts were analyzed: simulation performed in presence (face-to-face classroom) and online simulation (online education) performed through MS Teams platform. The research question focuses on the analysis of the performance of the methodology through a comparison between two decision making process simulations, i.e., face-to-face and online conditions.

The second article, titled "Pedestrian routes and accessibility to urban services: An urban rhythmic analysis on people's behaviour before and during the Covid-19", by Cecilia Zecca, Federica Gaglione, Richard Laing, Carmela Gargiulo (Robert Gordon University, United Kingdom and University of Naples Federico II, Italy). The paper pay particular attention the pedestrian accessibility of large shops before and during Covid-19 within Aberdeen urban context; on the other hand, it proposes how to adapt the pedestrian paths and spaces to reach larger retails such as supermarkets, pharmacies in compliance with social distancing and with the aim of providing useful suggestions to decision-makers.

The new Review Notes section propose four insights on the themes of the TeMA journal.

The first research "After recovery: towards resilience" by Carmen Guida. The contribution aims at discussing the main impacts and consequences of the Covid-19 pandemic on our lives and urban systems. It is focused on how researchers and policymakers can enhance urban resilience, in sight of a potential new health crisis and considering the coexistence of the new coronavirus within urban environments.

The second research "Strategies and guidelines for urban sustainability: the Covid-19 effects on the mobility system in Italy" by Federica Gaglione. The contribution examines how Covid-19 containment measures changed people's habits in reaching urban places and services, thus influencing the mobility subsystem. In more detail, this review focuses on of Italian legislative documents, the measures to relaunch public transport and sustainable mobility after Covid-19 in Italy.

The third research "Toward greener and pandemic-proof cities: Italian cities policy responses to Covid-19 pandemic" by Gennaro Angiello. The section concludes by analyzing the level of digitalization of Italian cities, finding that Italy is more focused on e-governance practices while is still weak its commitment in attracting digital entrepreneurs. The contribution provides an overview of the policies and initiatives undertaken by major Italian cities in response to the Covid-19 pandemic. Furthermore, the article analyses whether and to what extend these policies have also contributed to set the ground for a more sustainable and resilient urban future. Results of this analysis suggest that urban policies in the four largest Italian cities has been mainly target at containing the virus outbreak and reducing the negative impacts of the pandemic. In most cases, policies have been uncoordinated and temporary, favouring a sectoral rather than a systemic approach. The city of Milan has been found the only notable exception. The last research "Entrepreneurship in the city: the digitalization" by Stefano Franco. The Economy, Business and Land Use section underlines the benefits that entrepreneurship exerts on the city, with a specific focus on the digitalization. It finds that cities can enhance digital entrepreneurship by attracting digital firms and by implementing e-governance practices.