

# TeMA

Journal of  
Land Use, Mobility and Environment

The three issues of the 12th volume will think again the debate on the definition and implementation of methods, tools and best practices connected to the evolution of the main scientific topics examined in depth in previous TeMA Journal volumes.

Tema is the Journal of Land use, Mobility and Environment and offers papers with a unified approach to planning and mobility. TeMA Journal has also received the Sparc Europe Seal of Open Access Journals released by Scholarly Publishing and Academic Resources Coalition (SPARC Europe) and the Directory of Open Access Journals (DOAJ).



THE TIMES THEY ARE A-CHANGIN'

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Land Use, Mobility and Environment

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The cover image is a photo of impacts on transport infrastructure of typhoon Hagibis in Japan (October, 2019)

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.

The Italian *National Agency for the Evaluation of Universities and Research Institutes* (ANVUR) classified TeMA as scientific journal in the Area 08. TeMA has also received the *Sparc Europe Seal for Open Access Journals* released by *Scholarly Publishing and Academic Resources Coalition* (SPARC Europe) and the *Directory of Open Access Journals* (DOAJ). TeMA is published under a Creative Commons Attribution 3.0 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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## EDITORIAL PREFACE: TEMA JOURNAL OF LAND USE MOBILITY AND ENVIRONMENT 3 (2019)

### THE TIMES THEY ARE A-CHANGIN'

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In these last ten years, TeMA Journal has published several international studies and researches supporting the scientific debate on the urban complexity and the future challenges of urban areas. Thus, the three issues of the 12th volume will think again the debate on the definition and implementation of methods, tools and best practices connected to the evolution of the main scientific topics examined in depth in previous TeMA Journal volumes.

For this issue, the section "Focus" contains two articles.

The first article, titled "Defining urban green infrastructure role in analysis of climate resiliency in cities based on landscape ecology theories" by Elmira Shirgir, Reza Kheyroddin, Mostafa Behzadfar (University of Teheran, Iran). The paper addresses the landscape ecology principles and relationship between them and green infrastructure in cities. An application in a neighborhood of Tehran (Yousef Abad) was developed using the aerial images, field surveys and preparation of basic and analytical GIS maps. Finally, the effective qualities in assessing the climate resilience in cities using the urban green infrastructures based on landscape ecology were obtained.

The second article "Guidelines for Mega-event organization considering safety, security and resilience: Insights from London Olympic Games 2012 and Milan EXPO 2015" by Funda Atun and Ozlem Edizel Tasci (University of Twente, Netherland). The paper addresses the issue of mega-event organization, analyzing the Milan World Expo 2015 and London Olympic and Paralympic Games 2012. The paper, in particular, considers the two event under the light of security, safety and resilience of the events. The results are based on the experience of the real actors involved in these two events. The findings suggest several courses of action for decision-makers and emergency planners to safety and security design strategies that can facilitate resilience as a legacy of a mega-event.

The paper addresses the section "Land Use, Mobility and Environment" are five articles.

The first article, titled "High speed rail and airport. Future scenarios in Marco Polo Airport in Venice", by Paola Pucci and Giovanni Lanza (Politecnico di Milano, Italy). This paper introduces an analysis of the possible extension of the catchment area of the Venice Marco Polo Airport, due to the implementation of a direct rail connection and the completion of the high speed/high capacity railway between Milan and Trieste. The study estimates the effects generated by the new railway connections in terms of extension of the Marco Polo airport's catchment area and the related impacts on air traffic, in terms of potential new passengers.

The second article, titled "Walking and talking. The effect of smartphone use and group conversation on pedestrian speed", by Lexie Reynolds Walsh, Tingsen (Tim) Xian, David Matthew Levinson, Hema Sharanya Rayaprolu (University of Sydney, Australia). Distracted walking due to smartphone use is on the rise resulting in growing concern over pedestrian safety and well-being. The study measured the walking speeds of pedestrian groups differentiated by their smartphone use in two different environments - a wide pedestrian bridge at a university, and a narrow footpath on a busy commercial street.

The third article "Elders' quality of life and urban accessibility. A method proposal for spatial planning", by Federica Gaglione, Carmela Gargiulo and Floriana Zucaro (University of Naples Federico II, Italy) deals the issue of the progressive ageing of population is a challenge each city has to tackle by now in order to satisfy the related new commitments. Responding to the needs of the elderly implies rethinking the re-organization and the planning of the urban space to guarantee the best accessibility and usability to urban services of interest for the elderly segment of the population. In this perspective, the paper provides a methodology for classifying the areas of a city according to the levels of mobility and urban services for over 65.

The fourth article "Land-Use and Transport integration policies and real estate values. The development of a GIS methodology and the application to Naples (Italy)", by Gerardo Carpentieri, Carmen Guida (University of Naples Federico II, Italy) and Paul Chours (Province of North Holland, Netherlands). The aim of this study is to develop an ex-post spatial analysis procedure, GIS-based, able to quantify, in terms of real estate values, the impacts in station areas, at micro and macro level, that have been recorded as results of redevelopment and opening of new urban railway lines and stations, as well as of the development of urban requalification and transformation actions. Moreover, a second objective is to apply the methodology to the Naples case study, in order to assess its effectiveness.

The fifth article "Transport Implications in Tourist Destinations. The Trapani Airport in Western Sicily", by Enrique Calderon (Universidad Politécnica de Madrid, Spain), Paolo Ventura, Alessandro Massaro (University of Parma, Italy),. The paper discusses the impact upon the regional development of the tourist traffic of the Trapani Airport sited in the westernmost part of Sicily. Furthermore, it analyzes the important role of connectivity and accessibility in the development of the area and tourism, seeking a maximum involvement of stakeholders.

The section "Review Pages" defines the general framework of the issue's theme, with an updated focus on websites, publications, laws, urban practices and news and events. In particular, the Web section by Rosa Morosini describes three web resources of: (i) The Environmental pollution centers; (ii) European soil data centre and (iii) ECOREMED. The Books section by Carmen Guida briefly reviews three relevant books related to the Issues' theme: (i) Urban Climates; (ii) The Urban Fix: Resilient Cities in the War Against Climate Change, Heat Islands and Overpopulation and (iii) Domus Ecoworld. The Law section by Federica Gaglione keeps readers up to Improve the sustainability of cities through soft mobility. The Urban Practices section by Gennaro Angiello presents two case studies for urban resilience in north America (i) Chicago (United States) and (ii) Toronto (Canada). The News and Event section by Andrea Tulisi, select conferences deliberately deal with different issues not necessarily related to the theme of resilience, but which basically question on the future of cities.

Just few hours before the publication of this third issue of TeMA for 2019, the news of the failure of the International UN Climate Change Conference of Madrid 2019 (COP 25) came. This is not good news for those who take to heart the future of our planet. As partial solage, we report the speech of the President of the European Commission, Ursula von der Leyen, at the opening session of COP25 in Madrid.

*"In ten days from now, the European Commission will present the European Green Deal. Our goal is to be the first climate neutral continent by 2050. If we want to achieve that goal, we have to act now, we have to implement our policies now. Because we know that this transition needs a generational change. Three thoughts. The European Green Deal is Europe's new growth strategy. It will cut emissions while also creating jobs and improving our quality of life. For that we need investment! Investment in research, innovation, green technologies. To pull this off, we will deliver a Sustainable Europe Investment Plan – which will support one trillion euros of investment over the next decade. Second thought. Only what gets measured gets done. Therefore, in March next year, we will propose the first-ever European Climate Law to make the transition to climate neutrality irreversible. This will include extending emission trading to all relevant sectors, clean,*

*affordable and secure energy, the boosting of the circular economy, a farm to fork strategy as well as a biodiversity strategy. The European Green Deal will open new opportunities in all sectors – from transport to taxation, from food to farming, from industry to infrastructure. Third thought. This transition must work for all or it will not work at all. And with a Just Transition Fund we will make sure that we help those who will have to take a bigger step and leave no one behind. The Fund will leverage public and private money, including with the help of the European Investment Bank that has committed itself to become Europe's Climate Bank. We Europeans are ready. If we move together, we will also move faster, in everyone's interest. We will be as ambitious as we can throughout these COP negotiations. We are ready to contribute with our European Deal to a Global Green Deal. Thank you."*