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**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : JURNAL ILMIAH**

Judul karya ilmiah : Sustainability of Traditional Markets Post-Revitalization A Case Study of Bulu and (Jurnal) Peterongan Markets in Semarang, Indonesia  
 Jumlah Penulis : 3 penulis (**Suzanna Ratih Sari**, Nindita Kresna Murti, Muhammad Fariz Hilmy)  
 Status Pengusul : Penulis Pertama/~~Penulis Kedua~~/~~Penulis Ketiga~~/ Penulis Korespondensi  
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 Departemen Arsitektur UNDIP

Semarang, 15 Mei 2021

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Prof. Dr. Ir. Erni Setyowati, MT  
 NIP. 19670404199802 2 001  
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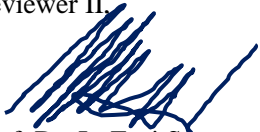
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# Sustainability of traditional markets post-revitalization: a case study of Bulu and Peterongan markets in Semarang, Indonesia

 Sari S.R.<sup>a</sup> [✉](#), Murti N.K.<sup>a</sup> [✉](#), Hilmy M.F.<sup>a</sup> [✉](#)
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## Abstract

Author keywords

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## Abstract

Bulu and Peterongan are traditional markets with a history related to Semarang City, Indonesia. They have both been transformed into new markets with better and more complete buildings and facilities. It was conducted by the government to realize the people's market revitalization program and sustainable development goals (SDGs) because sustainability is very important for historical buildings. This however, has reduced their conservative buildings due to the reconstruction of the Bulu Market after a fire accident and almost 75% of the buildings in Peterongan Market. The development caused a reduction in the demand of traders to sell and customers to shop due to the discomfort provided by the post-revitalization buildings. Therefore, a qualitative method was applied in this study to explain the phenomenon and sustainability of the post-revitalization of these two markets, and the findings are expected to be used in forming the strategy to encourage the sustainability of these markets. © 2021. Firenze University Press.

## Author keywords

Post-riqualificazione; Strategia sostenibile; Sustainable strategy Parole chiave: Mercati tradizionali; Traditional markets|Post-revitalization

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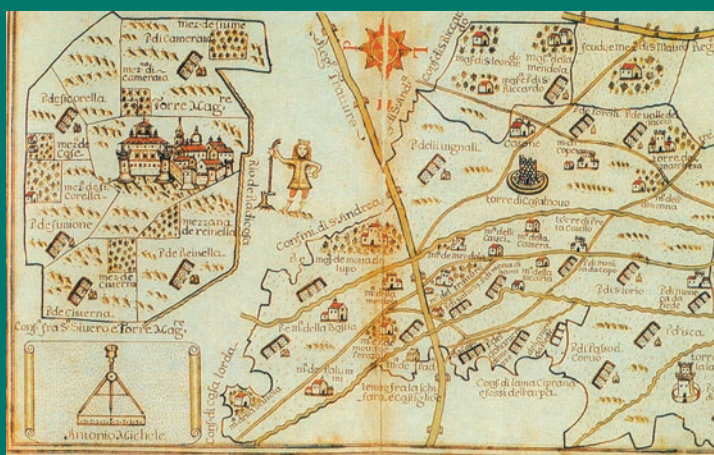
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Federica Cappelli<sup>1</sup>,  
Giovanni Guastella<sup>2,3,\*</sup>,  
Stefano Pareglio<sup>2,3</sup>

## Urban sprawl and air quality in European Cities: an empirical assessment

<sup>1</sup>Department of Economics, Roma Tre University, Italy

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Keywords: *Air pollution, Urban sprawl, European cities, Additive models*

Parole chiave: *Inquinamento atmosferico, espansione urbana, città Europee, modelli additivi*

JEL codes: Q53, R14, C21

\*Corresponding author

In this paper we estimate the relationship between urban sprawl and a measure of air quality, namely the number of days in which the PM10 concentration exceeds safeguard limits in European Union cities. Building on a multidimensional representation of sprawl, the paper employs several indicators to account for built-up area development, population density, and residential discontinuity. The paper employs generalised additive models to disentangle the non-linear effects in the variables and the interaction effects of the three sprawl dimensions. A significant and robust effect of urban morphology emerges after controlling for socio-economic, demographic, and climatic factors and the geographical location of the city. We find that urban sprawl impacts positively on pollutant concentration, but the effect is highly context-specific because of threshold effects and interactions.

---

### 1. Introduction

Air pollution can seriously threaten human life. A recent estimate (Lelieveld et al., 2019) reports 800,000 people prematurely dying in Europe as a consequence of air pollution. According to the same research, the average European citizen loses two years of life due to the breathing of polluted air. In addition, the geographical concentration of deaths caused by the spreading of the COVID-19 pandemic has brought researchers around the world to investigate the potential impact of air pollution of COVID-19 related morbidity and mortality, and the results suggest that the most polluted cities have experienced relatively higher death rates (Coker et al., 2020; Cole et al., 2020; Conticini et al., 2020; Oygen, 2020).

Cities are where the consequences of air pollution are most severe because air quality is the lowest due to transport and residential emissions (European Environment Agency, 2019) and the exposure is the highest. Cities are now home to more than half the world's population, and that share is projected to increase up to 68% by 2050, with 2.5 billion people moving to urban areas (UN DESA, 2019).

Traffic and especially vehicular particulate matter contribute to outdoor air pollution the most (European Environment Agency, 2017). Solutions to improve the quality of life in cities involve better pollution control (Dupont, 2018) through more accurate testing of vehicles on the road and stricter control, the limitation of vehicles in dedicated zones (Ferreira et al., 2015), the use of electric cars

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Keywords: *Social interactions, Public spaces, Iran, SEM, Mixed method*

Parole chiave: *Interazioni sociali, Spazi Pubblici, Iran, SEM, Mixed method*

JEL codes: C2, H1, H7, R5

## **A mixed method study on recognizing the areas of influence by urban planners in fostering social interactions in public spaces: evidence from Iran**

Due to the negative consequences of the rapid growth of urbanization in Iran, public spaces have suffered a lot of damage in recent years. Public spaces, which are generally areas for the formation of social interactions, have distanced themselves from their original concept in recent years in Iran. The main objective of this study is to investigate the promotion of social interaction in Iranian public spaces through urban planning interventions. Data used in this study were obtained through semi-structured interviews with practitioners and researchers in urban planning and questionnaire. Thematic analysis was used to analyze the interviews and the findings of the quantitative section were analyzed through the structural equation modeling (SEM) approach in Smart PLS 3. Our findings show that promoting social interactions in public spaces requires intervention in three pillars: the built environment, urban management and citizens' demanding approach.

---

### **1. Introduction**

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The disproportionate distribution of the activities and employment on the one hand and the empiric policies adopted by state managers on the other hand in third world countries have made metropolises become the main centers of income and employment (Rafiee et al., 2009). A complicated situation that has caused a series of problems, all of which originate in metropolitan areas (Sarvestani et al., 2011). Recent developments in urbanization and the problems arising from them have caused ur-