



# CHANGES OF EARTHQUAKE VULNERABILITY OF MARUNOUCHI AND GINZA AREA IN TOKYO AND URBAN RECOVERY DIGITAL ARCHIVES ON GOOGLE EARTH

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**ABSTRACT:** In this paper, the authors develop a multiple regression model which estimates urban earthquake vulnerability for different eras, and clarify the historical changes of urban risk in Marunouchi and Ginza Districts in Tokyo, Japan using old maps and contemporary geographic information data. Also, we compare the change of urban vulnerability of the districts with the significant historical events in Tokyo. Finally, the results are loaded onto Google Earth with timescale extension to consider the possibility of urban recovery digital archives in the era of the recent geoinformatic technologies.

**Key Words:** Urban Recovery Digital Archives, Google Earth, Marunouchi, Ginza, Urban Space, Urban Risk