

عنوان مقاله:

The impact of reconstructing public transportation based on transit-oriented development (TOD) on the traffic of 20th district of Tehran

محل انتشار:

پنجمین کنفرانس بین المللی پژوهش در علوم و مهندسی و دومین کنگره بین المللی عمران، معماری و شهرسازی آسیا (سال: 1399)

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خلاصه مقاله:

The model of transit-oriented development (TOD) with a focus on public transportation has been provided based on the location and facilities of the urban environment supported by a transport system. Saving time, reducing traffic, air pollution and fuel consumption are the advantages of implementing TOD. According to the statistic of Tehran Air Quality Control Company, 20th district of Tehran municipality is one of the most polluted urban areas of Tehran, which is part of the pollution caused by numerous factories and Tehran oil refinery and the other part relates to the geographical location of the region, from which citizens of the southwest and southeast of Tehran enter the area to access public transport that will lead to the accumulation of pollutants due to the decayed urban fabric and unmodified routes. In this research, TOD standards are evaluated as an economic solution for connecting southwest and southeast of Tehran outside the dense area of Shahr-e Rey. Based on simulations, this method can minimize 30% of non-indigenous traffic at Rey by using public transportation. It is also predicted that the return on equity will occur within the five-year period.

کلمات کلیدی:

TOD, Shahr-e Rey, Tehran transportation, air pollution, urban development

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