


# The Geo-spatial address registration system model to Turkey: A case study of Gorele

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## Abstract

Purpose of addressing was enabling the correct and unambiguous service for; emergency response, utilities (water, electricity, sewerage, etc.), postal mails, financial services or any other kind of service. The advent of computers and more specifically geographic information systems (GIS) opened a door to new range of possibilities for the use of addresses, such as routing and vehicle navigation, spatial demographic analysis, geo-marketing, and service placement and delivery. Such functionality requires a database which can store and access spatial data effectively. There is not an efficient spatial address system in developing countries such as Turkey. The addresses have been saved as textual files in the database. Non spatial or textual address data affects adversely urban based GIS projects. So, many developing countries have started spatial address based projects yet. This project named as Spatial Address Registration System (SARS) in Turkey. The project has been started by the Interior Ministry-General Directorate of Population and Citizenship in 2012 in order to define the textual information stored in the Address Registration System with geographic coordinates and to integrate the substructure, which will be set up, with other systems. The project aims to set up more efficient and functional substructure through adding a spatial dimension to national address database in which all address components throughout the country are managed textually; to prepare integration services which will enable authorized administrations, which have GIS, to keep spatial address database updated without further need for additional data entry. Setting up a substructure for data sharing in order to share spatial address information needed by many organizations and institutions through spatial national address database in accordance with current standards; to set up a substructure allowing citizens quick and accurate access to the processes regarding address components and construction documents and providing transparency in services based on address. This study investigated the problems base case study related to street addressing in Turkey and was conducted in two stages. First, the effectiveness of the existing street addressing system and numerating system for SARS project was examined. The problems caused by organizations and individuals that use non-standard formats were addressed in the second stage. Finally, it is offered some proposals about numerating system and standard address format.

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