

## SOCIAL NETWORK ANALYSIS OF SPATIAL DATA: THE CASE OF KONYA

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### ABSTRACT

Development and transformation processes towards the future knowledge society, central institutions, organizations and local government need to have in collaboration with each other to give best social utility.

In data sharing between organizations, each institution makes spatial data for their own and don't want to give their knowledge to other, so it cause organizational and political complexity. To examine efficiently spatial data sharing between the institutions, social network analysis is used.

In this study, data exchange, the institution of cooperation and relationship of obtaining information about public and private institution that studying with spatial data, determined with the numerical and visual analysis in Konya. As a result, relations between the institutions that work with spatial data, social network analysis, evaluating the invisible network of social relations have been determined.

**Keywords:** social network analysis, spatial data, the national spatial data infrastructure

### 1. INTRODUCTION

In every aspect of our lives fast and economical data exchange has become inevitable requirements of information society. In Turkey, public institutions, private sector, local authorities and between institutions which are working with spatial data spatial data exchange cannot reach to enough unfortunately. For speed high quality and economical Spatial data is essential to ensure interoperability. Along with the process of e-government for spatial data access, infrastructure for spatial data studies were accelerated but still not be initiated. The study was made in a big city Konya and using obtained results were the general findings reached. Metro poles are places where the highest population density, inhabited by people of every social class, educational level is very high, as well as people has lived with low education level. Very wealthy people are living in big cities as well as many poor people. As a result of this diversity the city's architectural problems and solutions, and solutions to social problems, cultural problems and solutions, and solutions to business problems differ from region to region. In some areas, infrastructure, transportation, the most basic needs such as education were seen as problem, but in some areas must be provided for cultural needs as green space, recreational and library. [1] Considering the fundamental problems of Konya, the problems should be evaluated primarily as a spatial self-evident. The solution to the problems of spatial with interoperability is possible. Inter-agency data sharing and communication is also very important in this regard.

### 2. SOCIAL NETWORK ANALYSIS

Social network analysis (SNA) is the methodical analysis of social networks. Social network analysis views social relationships in terms of network theory consisting of nodes (representing individual actors within the network) and connections or links