The premise of this dissertation is to create methodical and practical guidelines for reconstructing the historical space of cities, using the city of Olsztyn as an example. In the literature, the topic of functional-spatial changes of Olsztyn on the basis of analysis of historical sources of information with the help of a digital model has not yet been addressed in such a comprehensive way, so far historians of the region have focused on a descriptive or fragmentary study of the spatial development of the city.

Historical geography with the use of Geographic Information System tools is still a growing field of study. The combination of the historical art of cartography with the modern technology of Geographic Information Systems is an innovative aspect, which allows to shed new light on the past of cities and interpret the conditions of its development - the study of the history of cities based on GIS tools is more reliable.

The reconstruction of the spatial development of the city of Olsztyn, done using historical cartographic materials with the help of a digital model built in GIS software, made it possible to prove the claim that historical sources of information are a valuable base element for modern spatial analysis.