

Abstract

Modeling of future land use maps has become important for the understanding of the growth patterns of the urban sprawls. Bangalore is a city of rapidly growing population mainly due to a large population of people migrating into this city for various social and economic reasons. With the help of the LCM in TerrSet, future simulation of LULC has been generated for 2040. The major factors taken into consideration were Slope, Distance from CBD, Roads and Railways. These factors have an influence in the growth of urban sprawl and hence these factors act as the driving force for the increase or decrease in the urban sprawl.

The study of projected land cover for the future will help in the analysis of the patterns of urban growth and the underlying reasons as to why the urban areas has been increasing and the suitable measures that can be taken to prevent the loss of any natural resources which might be used in the conversion of urban areas in the near future.