

Interactive Tourism Mapping Using Free and Open Source Software: A Case Study Kathmandu, Nepal

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Summary

Tourism supports the economic sector of developing countries like Nepal which provides concrete and quantitative growth in trading opportunities and it can be supported by interactive tourism mapping that will provide a way to support decision making for tourists. In this study, open street data are used for showing six layers that include cultural, natural, road, hospital, hotel, a bank from an open street map. The natural feature layer includes parks, water bodies, forests, protected areas. The cultural-site layer includes durbar, temples, stupa, church, museum, palace. The hospital layer includes clinic, local health post, hospital. Hotel layer includes hotels, guest houses, restaurants, lodges, party palace. The Bank layer includes bank branch and ATM locations. Such types of applications such as inventory, analysis, and evaluation of plans based on tourism development.

Introduction

- open street data and map
- Visualizes the sites and tourist services, tourism statistics, and other factors that could affect the development of tourism
- With the integration of applications that retrieve tourist data, prepare geographic database, tourist sites
- Growth of tourism has had a significant impact on economic, socio-cultural and physical environment
- Influences the environment, economy, society and culture of destinations in different ways, both positive and negative

Methodology

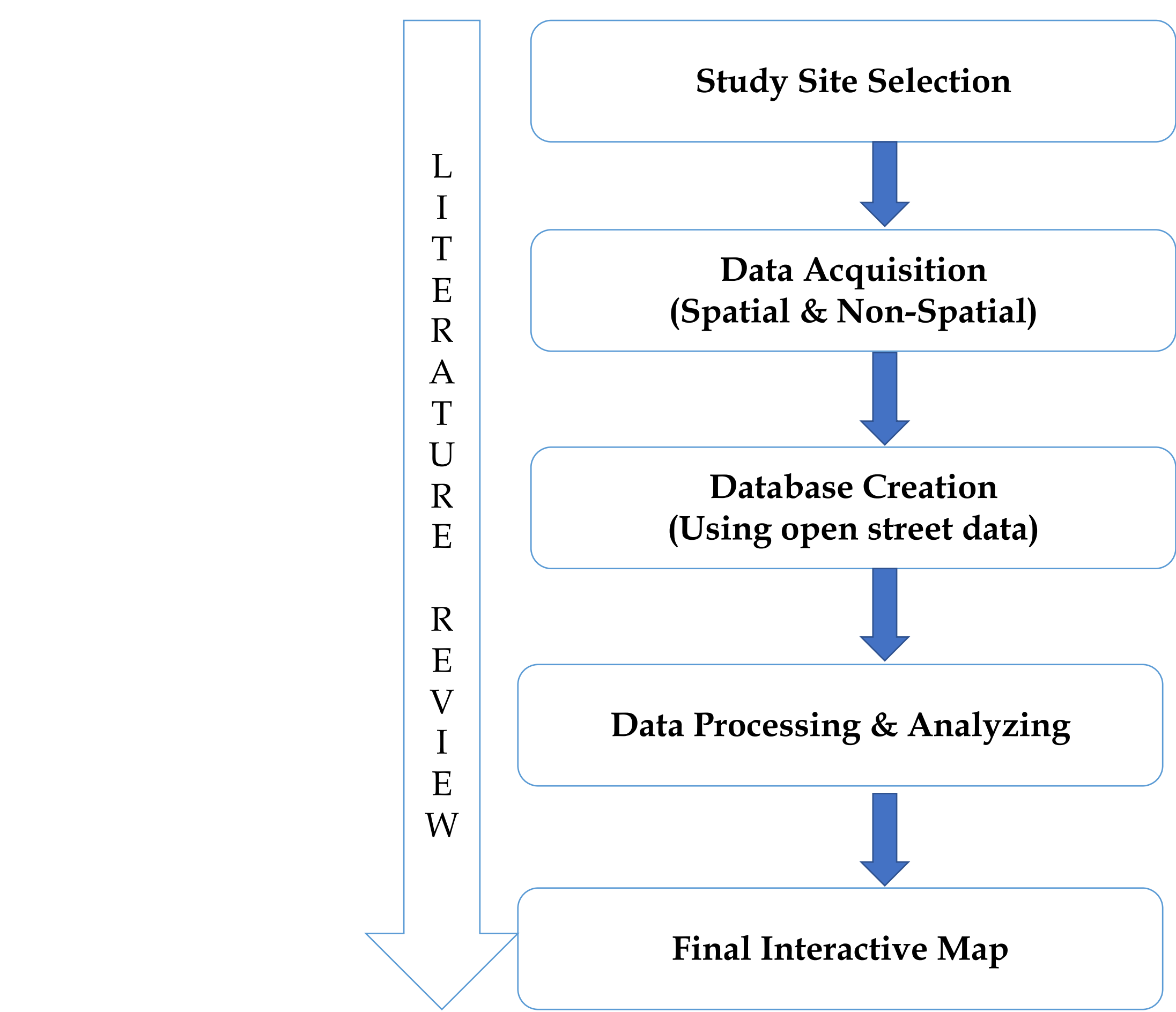


Figure 1: Methodology used for Study

Acknowledgement

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Study Area

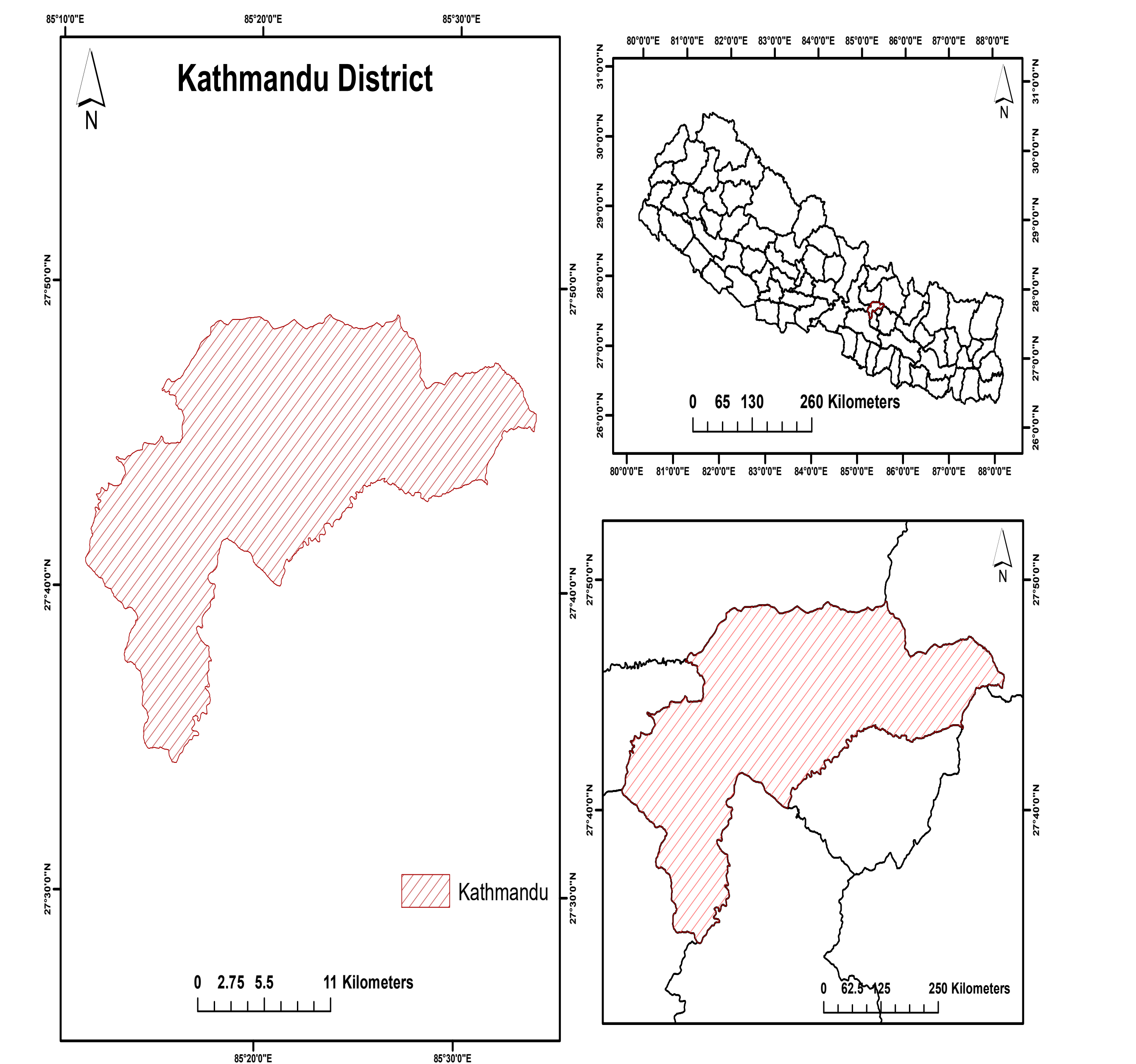


Figure 2: Map of study area

Result

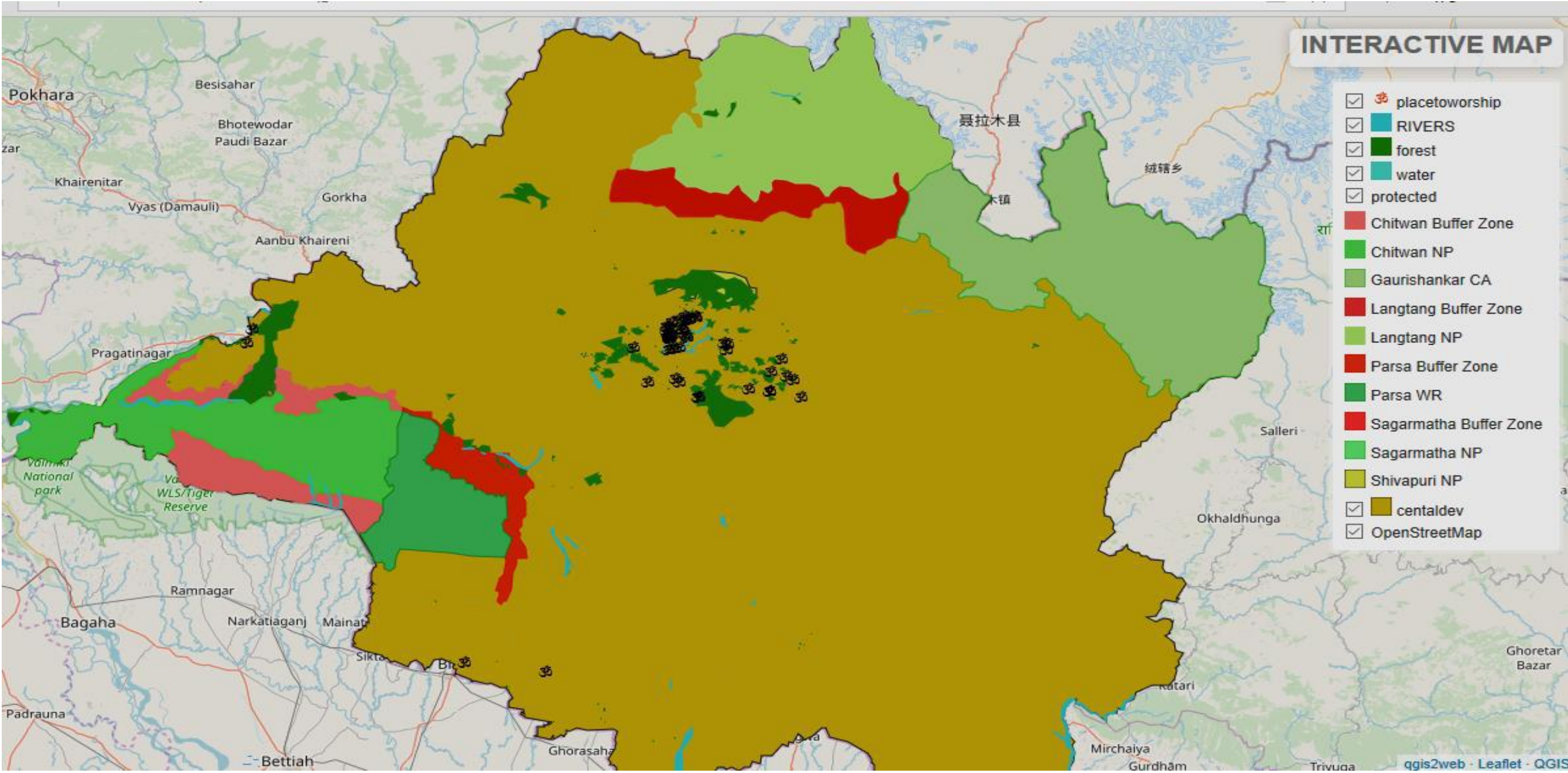


Figure 3: Interactive map

- Technology integrates common database operations such as query with the unique visualization and geographic analysis benefits offered by maps.
- Geo-referenced data (spatial and non spatial) of major tourist destinations shows in interactive map
- Layer with base map open street map combines related objects roads, hospitals, hotels, and major destinations of tourists

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