

Indore Urban Growth Map

Introduction

- Indore is the largest city in Madhya Pradesh with a population of over 3 lakhs.
- The city has seen a rapid growth in population due to rapid industrial activity and being the economic centre of the state.
- In the last decade alone, the population has increased by almost 30%.

Why This Topic

- Being an urban planner and a map enthusiast, I have observed a rapid expansion of built-up area in some of the urban centres like Indore, Bhubaneswar, etc.
- Here with given opportunities, I would like to show the extent of growth, the direction of growth and reasons of it.

Methodology

- The approach is to prepare a simple map that can demonstrate the urban growth of Indore and its adjacent settlements.
- I gathered a set of LISS III data for 5 tiles provided by Bhuvan. (2008- 2018)
- 5 tiles used – F43J10, Fd3J13, F43J14, F43K01, F43D16
- Merged those tiles and performed land use classification.
- Picked 3 intervals that are suitable for the study. i.e., 2008, 2014, 2018.
- Digitised the built-up marked area and presented under single image.

USE OF The Study

- To understand Urban growth patterns.
- Housing demand calculation for specific area, can help in decision making of private developers.
- Can be used to provide services in the newly developed area.

Conclusion

- As we can see here the development is carried out along the transport corridors mostly along the route connecting to the adjacent city/town.
- These maps can help us in prediction of future growth, housing demand at any location etc.

Experience

- I have been using USGS data for last 3- 4 years and have never considered IRS Imagery, for the first time I got to explore the data available in Indian space sector.
- Same for GIS I have used ArcGIS in past as academic exercise have never used open-source GIS software, in this case QGIS. It has been a great experience.
- I have a request please update the land use data for each year on the thematic maps.

-THANK YOU-