

Analyzing Impacts Of Urbanization On Phone Usage Using GIS

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Abstract

There has been an exponential growth in communication, both telephone and cell phones, in last couple of decades. Currently, there are 500 million cell phone users and nearby 0.4 million cell phone towers in India and yet increasing. In the current research, we are analyzing the relation between urbanization and the number of phone users, teledensity and per capita GDP, number of subscribers in India (state wise), trend in growth of mobile phone users as compared to fixed line (landline) over the last decade using GIS technology. We are also trying to analyze digital divide across Indian states by analyzing the availability of state wise ICT (information and communication technologies) infrastructure. We are using Pearson's correlation index to understand correlation between different variables. This will be used to carry out regression analysis to model phone usage with respect to other variables and predict future conditions. Geospatial technology will also provide powerful visualization of distribution patterns of all the considered variables across India.

Key words: GIS, urbanization, phone users, teledensity, per capita GDP, digital divide, ICT, Pearson's correlation index, regression analysis, Geospatial technology.