



ಕರ್ನಾಟಕ Data Lake

Data Story On Secondary Gross Enrolment Ratio (GER)

31

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This data story analyses various factors from multiple sources that are highly correlated with the GER at the taluk level and uses predictive analysis to estimate the impact of changes in each factor on districts and taluks. The interactive dashboards are based on the report "**Indicators And Its Impact Across Poverty, Health & Education Sectors**". Please click here to [view/download](#) the report.

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GER Factors

You can select the variable for which you want to see correlation with GER, from the dropdown menu.

If the p-value for a variable is less than 0.05, then that variable has a significant correlation with GER. While many factors have significant correlation to GER, the following have been identified as impact factors in consultation with the domain experts.

Impact Factors

1. number of schools without library (%)
2. number of schools without functional science kit(%)
3. number of schools without internet(%)
4. number of schools without functional Laptop/Notebook,tablets,desktops or PCs(%)
5. number of schools without functional girls toilet(%)
6. number of secondary schools without social teacher(%)
7. number of secondary schools without science teacher(%)
8. number of schools with secondary PTR above 30(%)

Predictive Impact Analysis

The dashboard has a slider using which, you can change the factor of interest. Initially, the slider is at 0%. If you want to decrease the factor by 10%, you can move the slider to the left. Similarly, if you want to increase the factor by 10%, you can move the slider to the right.

For example, say you want to increase the number of households having access to electricity by 20% of the current value, you can do it by moving the slider two times to the right (which corresponds to +20%)

The dashboard has district level map as well as taluk level map. The colours on these maps represent the change in GER after making the desired change in the factor of interest. If you hover over a particular district in the district level map, you get a magnified image of those taluks belonging to that district.

Below the maps, you can see the score of each taluk sorted in descending order. The scoring is based on how good each taluk has performed in changing yield after changing the factor.

At the very bottom, you can see the dataset that is being used for making this interactive visualization

Recommended Budget Allocation For Increasing GER

The budget allocation is calculated based on the correlation of the various significant factors with GER. If a factor has high correlation with GER, then that factor has to be allocated more budget than others. The method also takes into account the population of each district/taluk and distributes the budget in such a way that if a particular district/taluk has more people who are affected by a factor x, then we allocate more amount to that district/taluk in order to control that factor.

English



The report **Outcome-based SDG budget- Secondary Education** outlines the components of the following data story and gives taluka-specific budget recommendations based on outcomes for each relevant factor. Please click here to [view/download](#) the report and the data.

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