



# ಕರ್ನಾಟಕ Data Lake

## Data story on CSAS (Census Based State Achievement Survey)

31

MAY 2023



This data story analyzes various factors from multiple sources that are highly correlated with the CSAS 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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## CSAS Factors

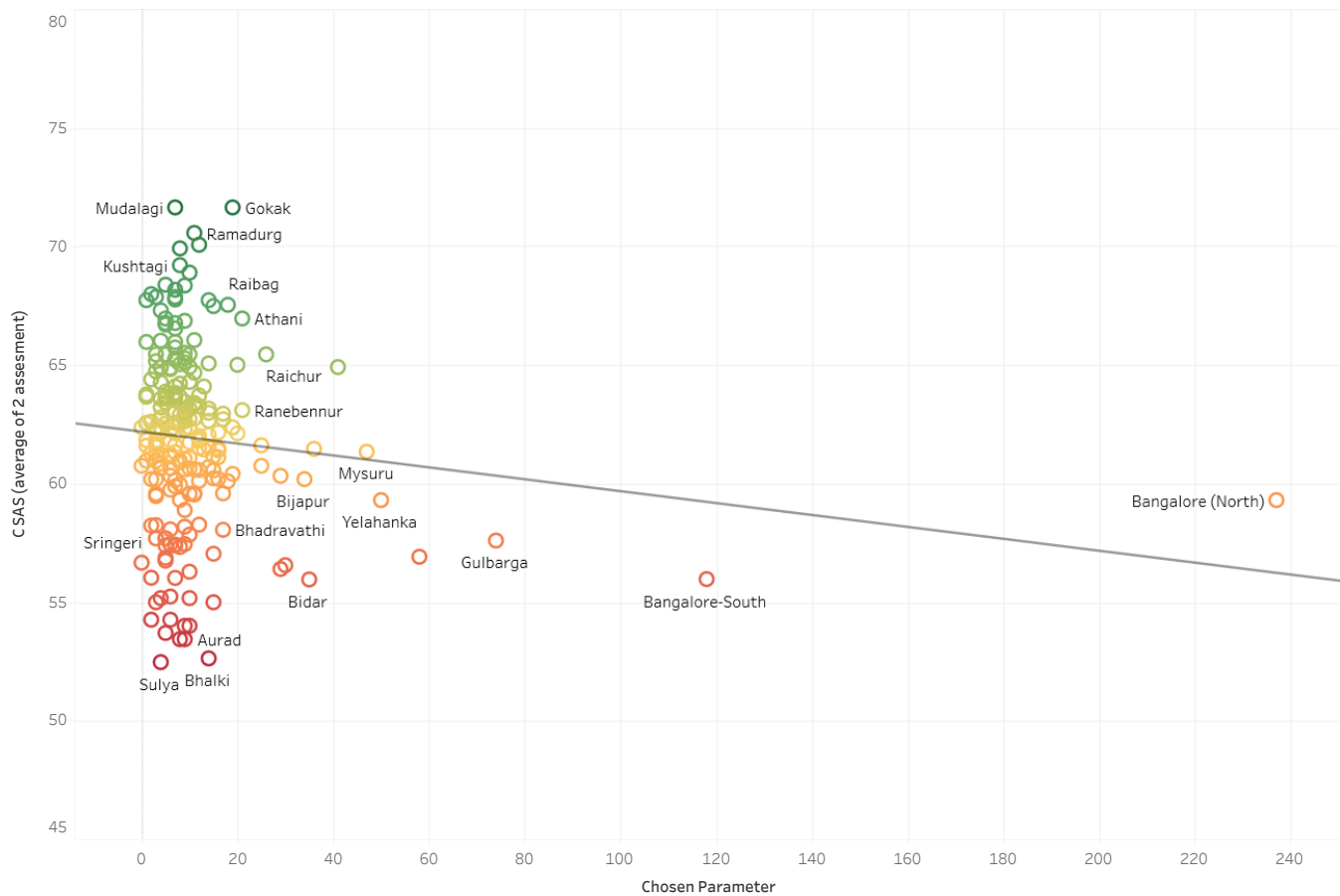
### Factors with significant correlation with CSAS:

1. Number of HPS schools without same English teacher
2. Number Of Schools Without Functional Maths Kit
3. Number Of Schools Without Functional Science Kit
4. Number Of Schools Without Library
5. Number Of Secondary Schools With Same Maths And Science Teacher
6. Number Of Secondary Schools Without English Teacher
7. Number Of Secondary Schools Without Maths Teacher
8. Number Of Secondary Schools Without Social Teacher
9. Number Of Secondary Schools Without Science Teacher

Choose Parameter

Number Of Secondary Schools Without Maths Teacher

English



## 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 decrease the 'Number Of Schools Without Functional Maths Kit' by 20% of the current value, you can do it by moving the slider two times to the left (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 CSAS 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 the selected district.

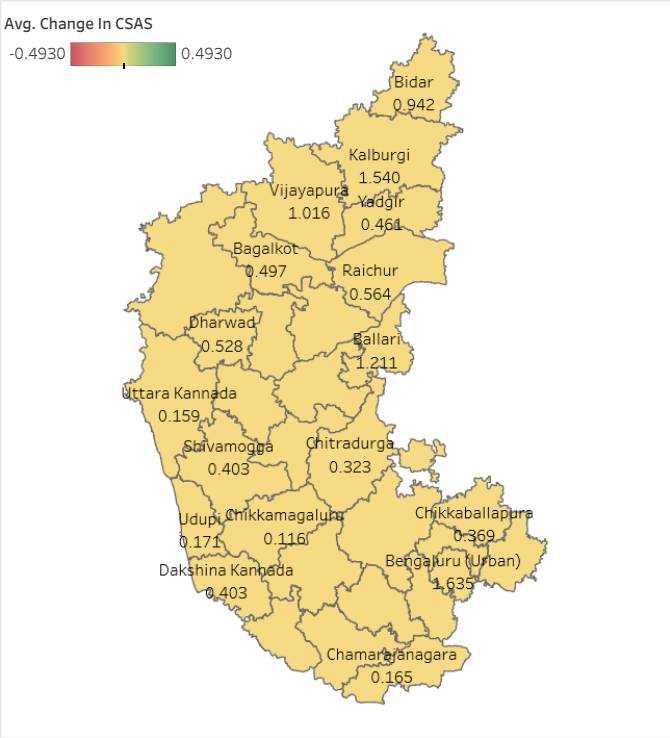
Below the maps, you can see the score of each taluk sorted in descending order. The scoring is based on how good each taluk has performed in changing yield after changing the factor.

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

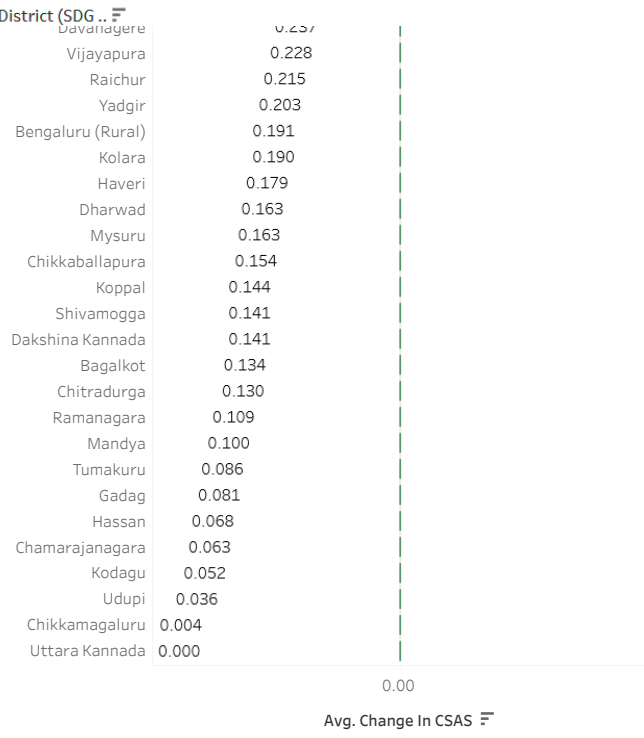
Change By

-10%

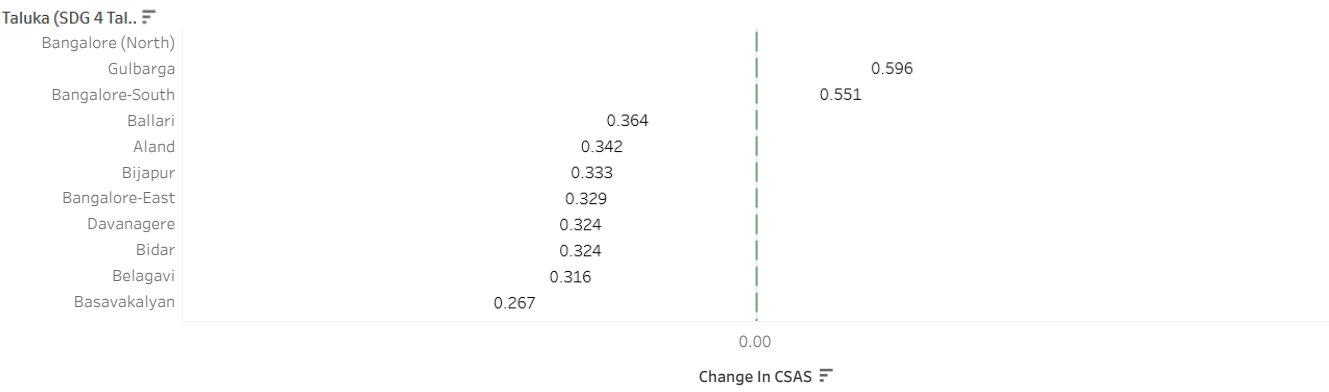
Districtwise Change In CSAS



Rank Of Districts



Rank Of Taluks



Dataset

District (Sheet1)	Taluka (Sheet1)	Chosen Parameter	Change In CSAS	Taluk Score
Bengaluru (Urban)	Bangalore (North)			0.6
	Bangalore-South			0.3
	Bangalore-East			0.3
	Anekal			0.3
	Yelahanka			0.3
Kalburgi	Gulbarga			0.6
	Aland			0.3
	Afzalpur			0.3
	Chincholi			0.3

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.

English



# Recommended Budget Allocation For CSAS

The budget allocation is calculated based on the correlation of the various significant factors with CSAS. If a factor has high correlation with CSAS, 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.

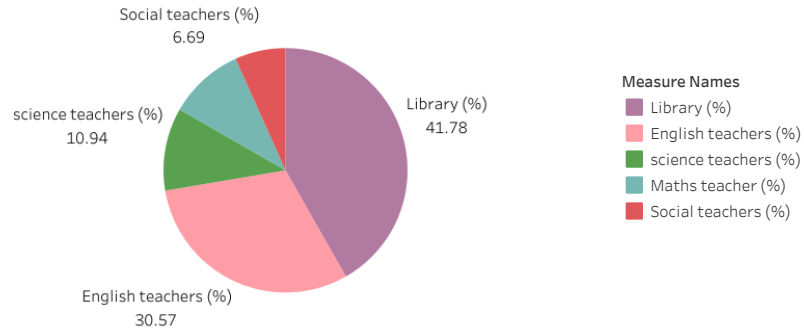
English

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English



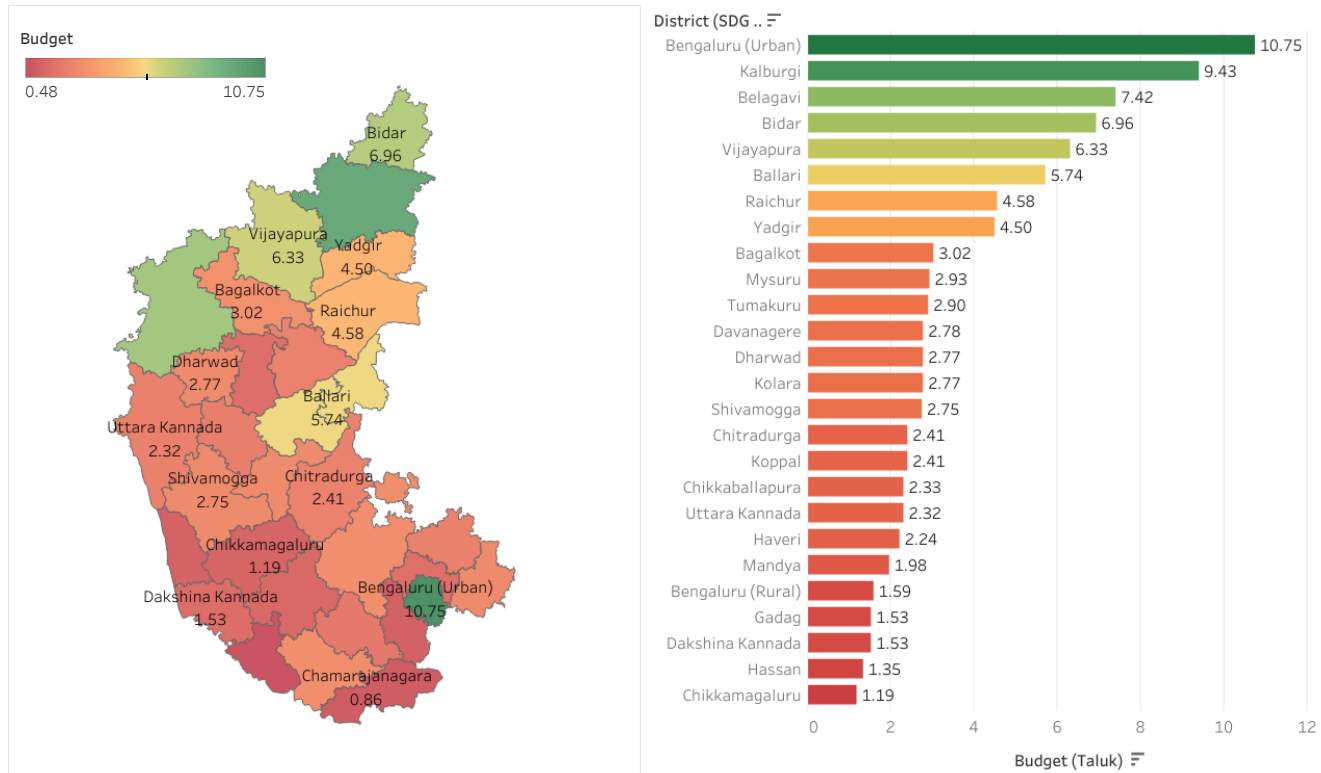
## Desirable Budget Allocation for the State



Budget (in Crores) for the State

1

## District wise allocation of total budget (in lakhs)



## District Level Scheme Wise Budget Allocation (In Lakhs)

Choose factor