



TELANGANA GROWTH ANALYSIS

BY SOUVIK SASMAL



CONTENTS

- ❖ INSIGHTS TO ACTIONS
- ❖ STAMP REGISTRATION ANALYSIS
- ❖ TRANSPORT SALES ANALYSIS
- ❖ TS – IPASS ANALYSIS
- ❖ SECONDARY RESEARCH
- ❖ ANALYSIS EPILOGUE
- ❖ ACKNOWLEDGEMENTS





INSIGHTS TO ACTIONS

Let's dive into today's topic. I've undertaken a thorough data analysis of Telangana's growth across multiple sectors using PowerBI. The insights generated are tailored for top-level management and aim to provide a data-driven pathway for the state's future development. I'm excited to share these results with you





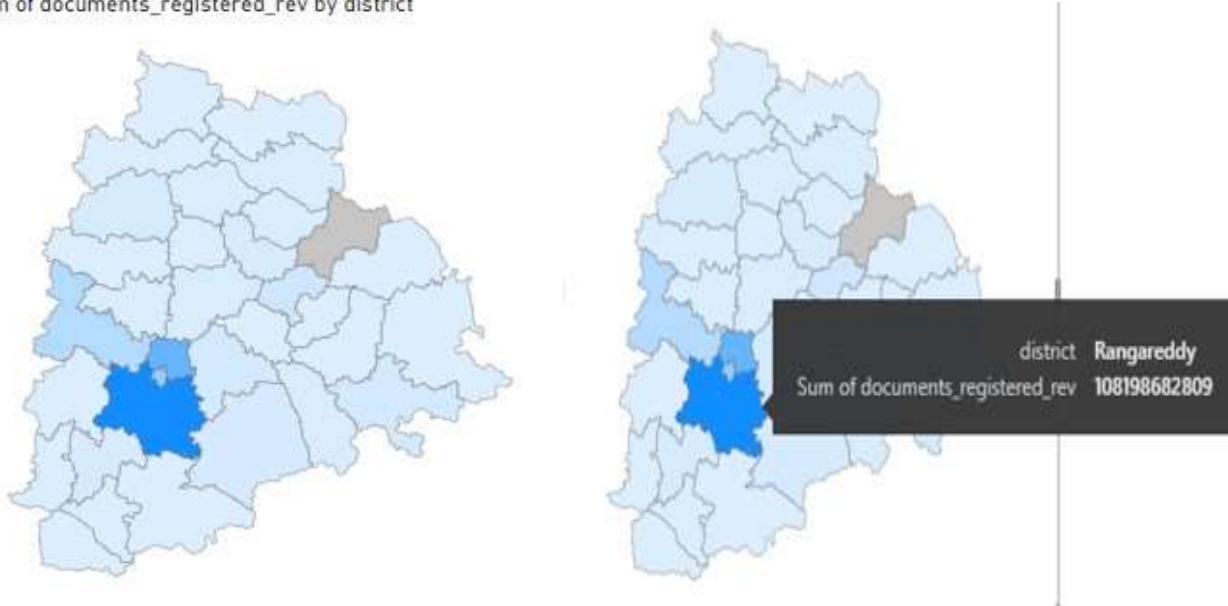
STAMP REGISTRATION ANALYSIS

Performed analysis on the revenue derived from both document registrations and e-stamp challan payments, breaking it down by district and month. The stamp registration analysis involves examining the records of property transactions to assess trends, identify tax compliance, and gauge the real estate market's health. It provides critical insights into property values, market dynamics, and tax revenue, aiding government policies and investment decisions.



DOCUMENT REGISTRATION ANALYSIS

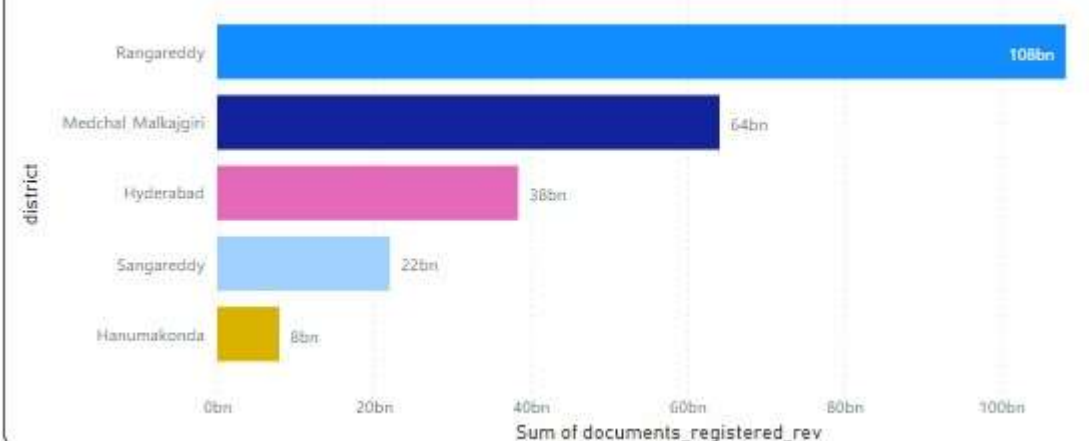
Sum of documents_registered_rev by district



- ❑ After analyzing the data, here are the top 5 districts that showed the highest document registration revenue growth between Fiscal Year (FY) 2019 and FY 2022: Rangareddy (108bn), A Hydreabad(58bn), Sangareddy (22bn), Medchal_Malkajgiri (64bn)

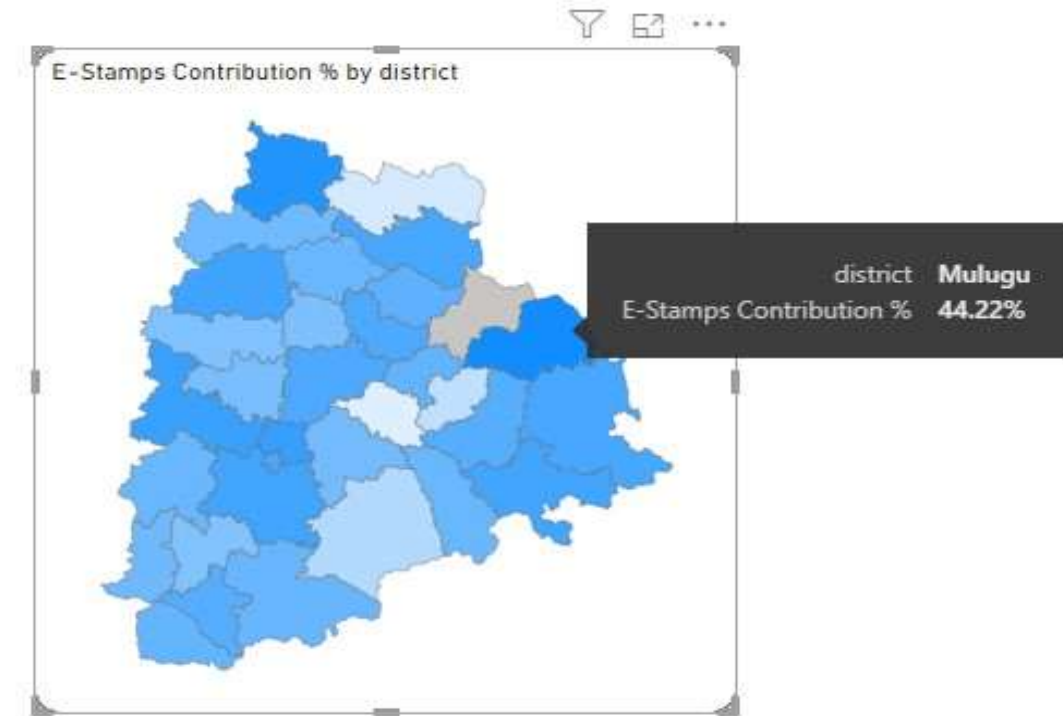
- ❑ The revenue generated from document registration varies significantly across districts in Telangana
- ❑ Rangareddy have generated high revenue of Rs. 108.19Bn and Kumurambheem Asifabad generating the lowest revenue of Rs. 227M

Sum of documents_registered_rev by district



COMPARISON OF REVENUE

district	Total Docreg Revenue	Total EStamps Revenue	E-Stamps Contribution %
Mulugu	515528121	408743315	44.22%
Adilabad	1066971491	831038256	43.78%
Medchal_Malkajgiri	64071382839	48819368222	43.24%
Sangareddy	22024502771	16708219605	43.14%
Nizamabad	4046937361	3047094971	42.95%
Rangareddy	108198682809	81336993463	42.91%
Khammam	5606141586	4208231368	42.88%
Total	246419696295	185874959062	43.00%



- ❑ The revenue generated from document registration and e-stamp challans varies among districts, but in some districts Rangareddy, Hyderabad, Khammam, Hanumakonda, Yadadri Bhuvanagiri, Alidabad etc..
- ❑ e-stamp challan revenue has overtaken document registration revenue in FY 2022, by calculating e-stamp contribution % , indicating a significant trend or shift in revenue generation specially in mulungu which is 44.22%

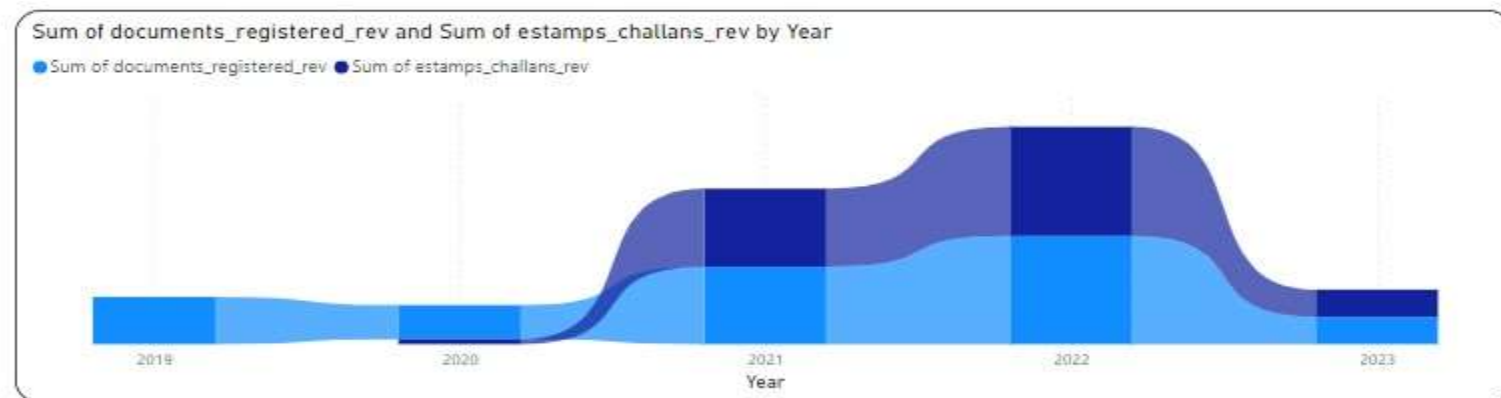


IMPACT OF E-STAMP CHALLAN

district	Stamp Registration Revenue	Segment
Rangareddy	108198682809	High
Medchal_Malkajgiri	64071382839	High
Hyderabad	38396743983	High
Sangareddy	22024502771	High
Hanumakonda	7927494100	Medium
Yadadri Bhuvanagiri	5973744502	Medium
Khammam	5606141586	Medium
Nalgonda	4521634367	Medium
Total	295229273757	High

- ❑ Categorize districts into three segments based on their stamp registration revenue generation during the fiscal year 2021 to 2022.
- ❑ From the above table we got that Rangareddy , Medcal,Hydreabad have the highest segments

- ❑ The data reveals a noticeable shift in the pattern of document registration and e-Stamp challan counts since the implementation of e-Stamp challans



Stamp Analysis

fiscal_year

All

district

All

3M

E-Stamp Challan Count

5M

Document Registered Count

295bn

Total Docreg Revenue

221bn

Total EStamps Revenue

district

Stamp Registration Revenue

Segment

Rangareddy

108198682809

High

Medchal Malkajgiri

64071382839

High

Hyderabad

38396743983

High

Sangareddy

22024502771

High

Total

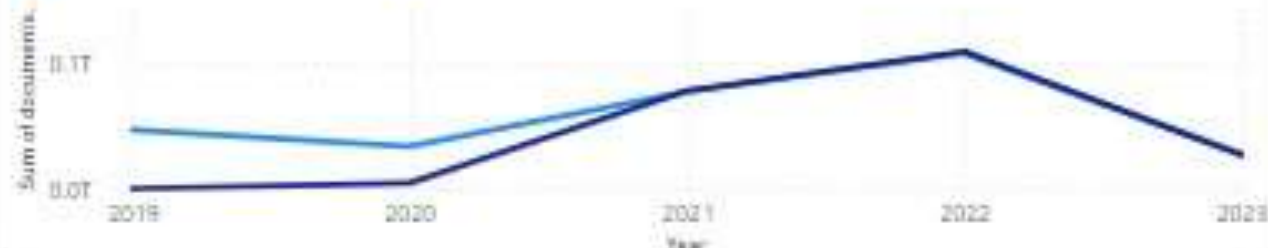
295229273757

High

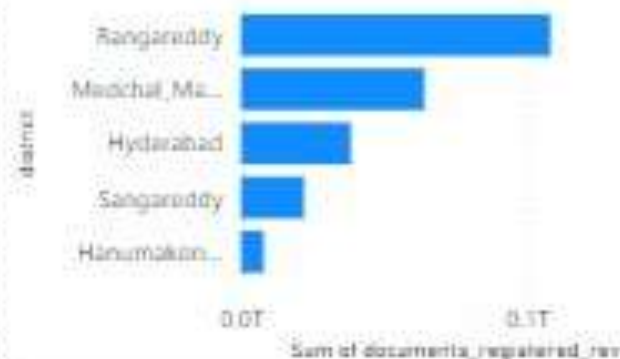
district	Total Docreg Revenue	Total EStamps Revenue	E- Stamps Contribution
Mulugu	515528121	408743315	44.22
Adilabad	1066971491	831038256	43.78
Medchal Malkajgiri	64071382839	48819368222	43.24
Sangareddy	22024502771	16708219605	43.14
Nizamabad	4046937361	3047094971	42.95
Rangareddy	108198682809	81336993463	42.91
Total	246419696295	185874959062	43.00

Sum of documents_registered_rev and Sum of estamps_challans_rev by Year

Sum of documents_registered_rev Sum of estamps_challans_rev

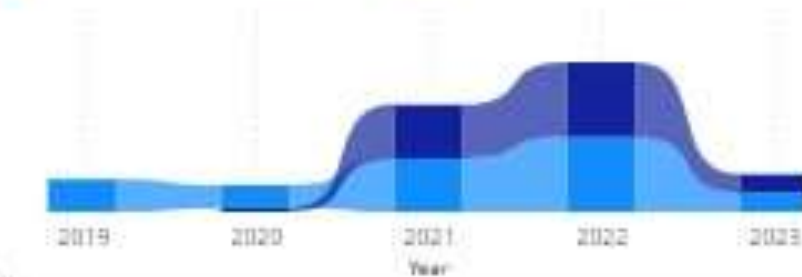


Sum of documents_registered_rev by district

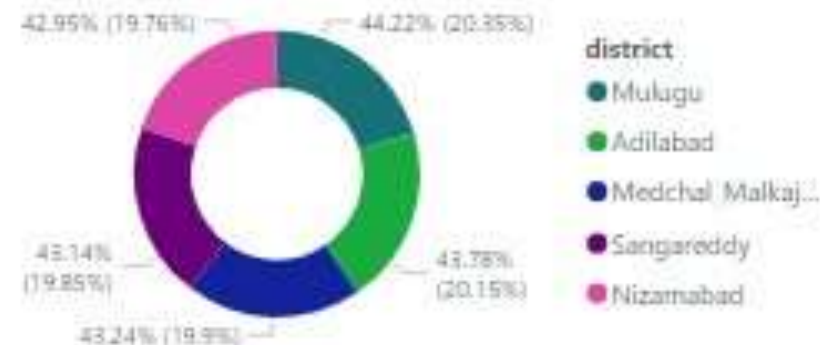


Sum of documents_registered_rev and Sum of estamps_challans_rev by Year

Sum of documents_registered_rev Sum of estamps_challans_rev



E-Stamps Contribution % by district





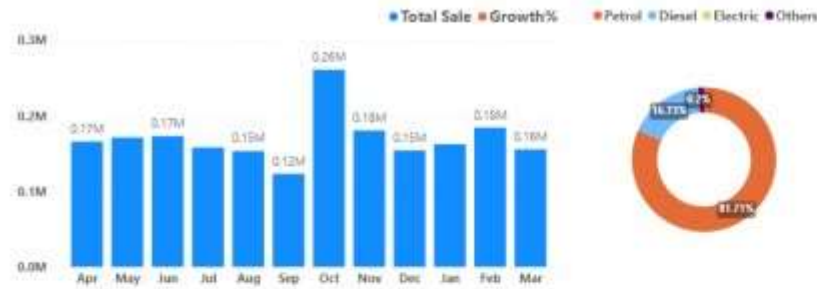
TRANSPORT SALES ANALYSIS

Performed analysis on Telangana's RTA vehicle sales data, categorized by factors like fuel type and seating capacity, and aggregate it by district and month. I conducted an analysis on Telangana's RTA vehicle sales data, categorizing it based on factors such as fuel type and seating capacity. I then aggregated this data by district and month. This comprehensive analysis offers valuable insights into regional vehicle preferences and market dynamics, aiding in strategic decision-making for the automotive sector and transportation planning.



SEASONAL FUEL SALES CORRELATION

The bar plots below show the monthly sales trends for total vehicle sale considering fuel types across various fiscal years. We can see that every year Oct have generated the highest sale which is due to high discounts and festive offers. Apr 2020 have seen the lowest sale of all time due to Covid-19 which increased gradually till the month of Oct



FY-
2019



FY-
2020



FY-
2021

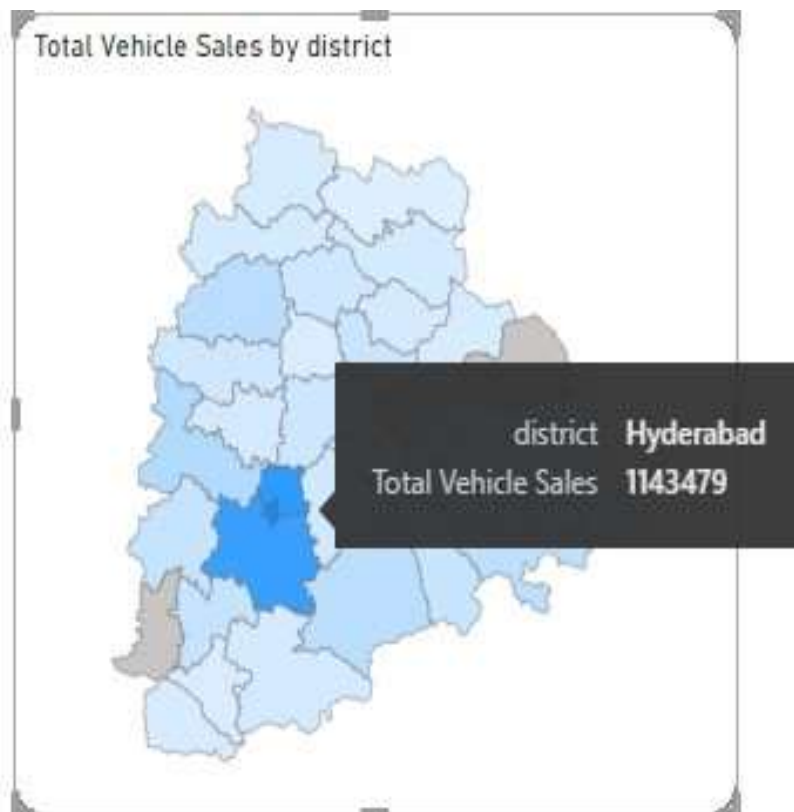


FY-
2022

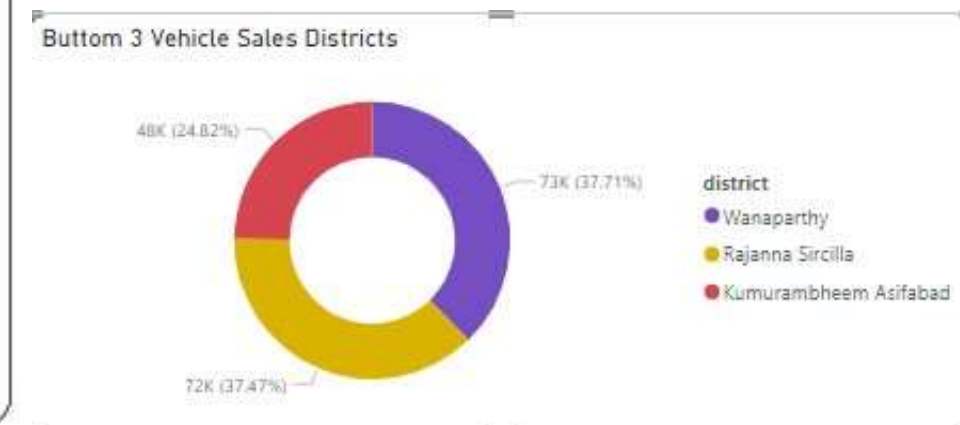
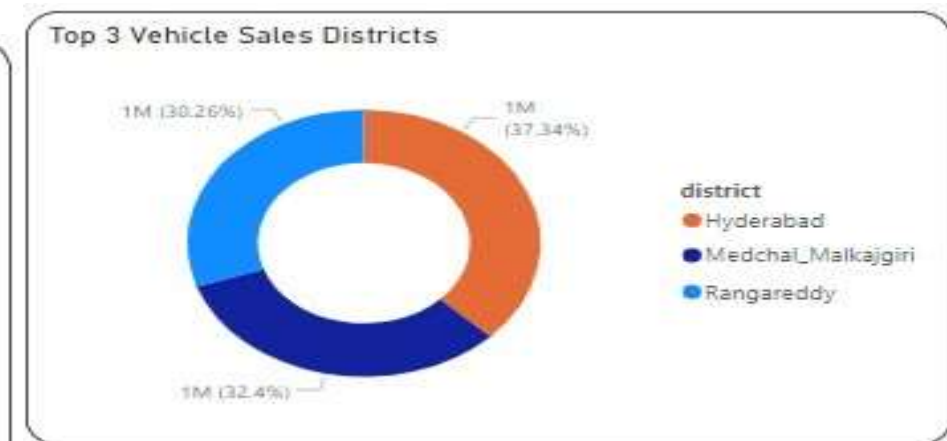


DISTRICT FUEL SALES CORRELATON

- ❑ Hyderabadis consistently the highest seller across all fiscal years, making it a critical market.
- ❑ Medchal_Malkajgiri and Rangareddy are consistently high-performing districts, coming in second and third respectively across all fiscal years.
- ❑ Kumurambheem Asifabad consistently shows the lowest sales, which might need investigation into possible causes and potential for improvement.



district	Total Vehicle Sales
Hyderabad	1143479
Medchal_Malkajgiri	992377
Rangareddy	926633
Sangareddy	275327
Nizamabad	236109
Nalgonda	228112
Khammam	219843
Warangal	219441
Vikarabad	173848
Mahabubnagar	169952
Suryapet	164007
Karimnagar	158824
Bhadradi Kothagudem	146785
Siddipet	142844
Kamareddy	128648
Jagtial	126542
Yadadri Bhuvanagiri	118597
Nagarkurnool	106143
Medak	98686
Mahabubabad	97560
Mancherla	96300
Nirmal	94500
Total	6665777



DISTRICT VEHICLE SALES CORRELATION

The bar plots below show the districts wise sales trends considering vehicle class across various fiscal years 2022.

- Motorcycles are the most commonly sold vehicle class in almost all districts. The sales of motorcycles are significantly higher than those of other vehicle classes
- The sales of motorcars vary significantly across districts. For instance, Hyderabad has a considerably higher number of motorcar sales compared to other districts
- AutoRickshaw & Agriculture are relatively smaller but show some district-specific trends. For example, AutoRickshaws have higher sales in Hyderabad, while Agriculture-related vehicles see higher sales



Transport Analysis

7M

Total Vehicle Sales

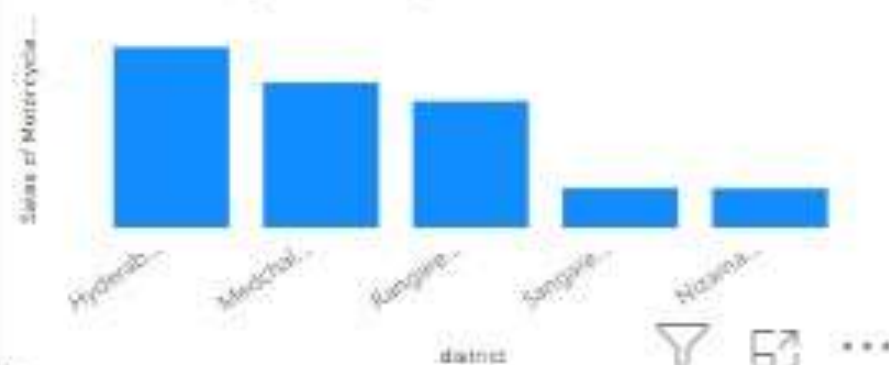
5753

Employees_Count

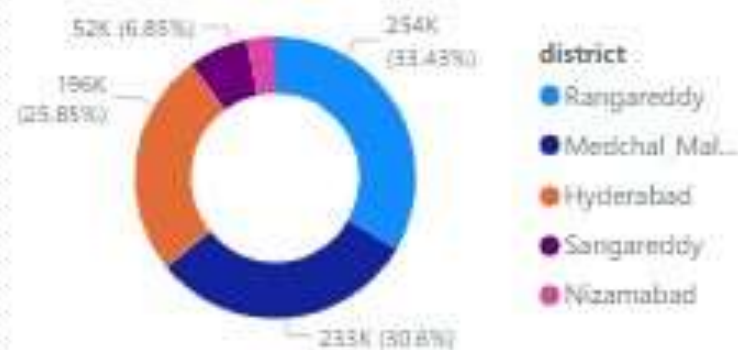
6M

Total Vehicle Class Sales

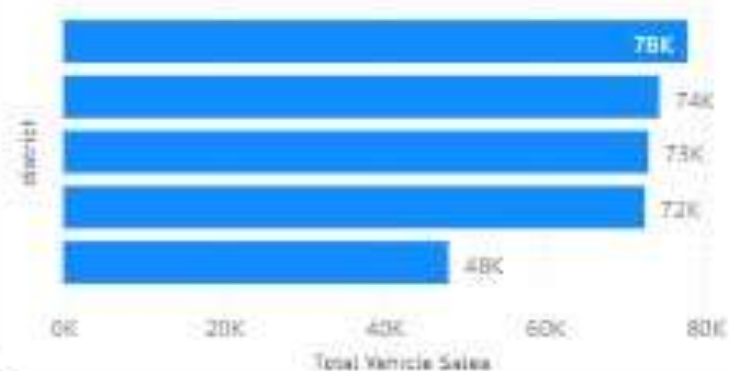
Sales of Motorcycle 2022 by district



Sales of Motorcar 2022 by district



Bottom 5 District



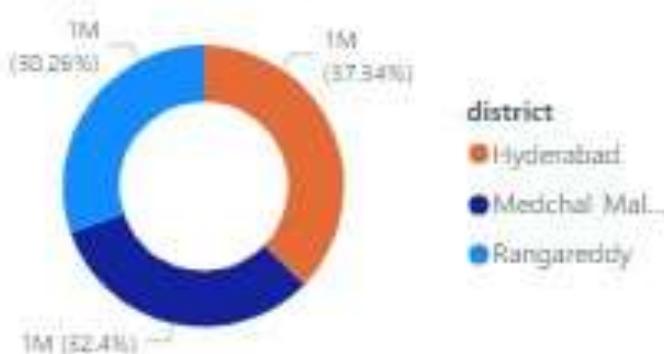
Total Vehicle Sales by district



Bottom 3 Vehicle Sales Districts



Top 3 Vehicle Sales Districts





TS-IPASS ANALYSIS

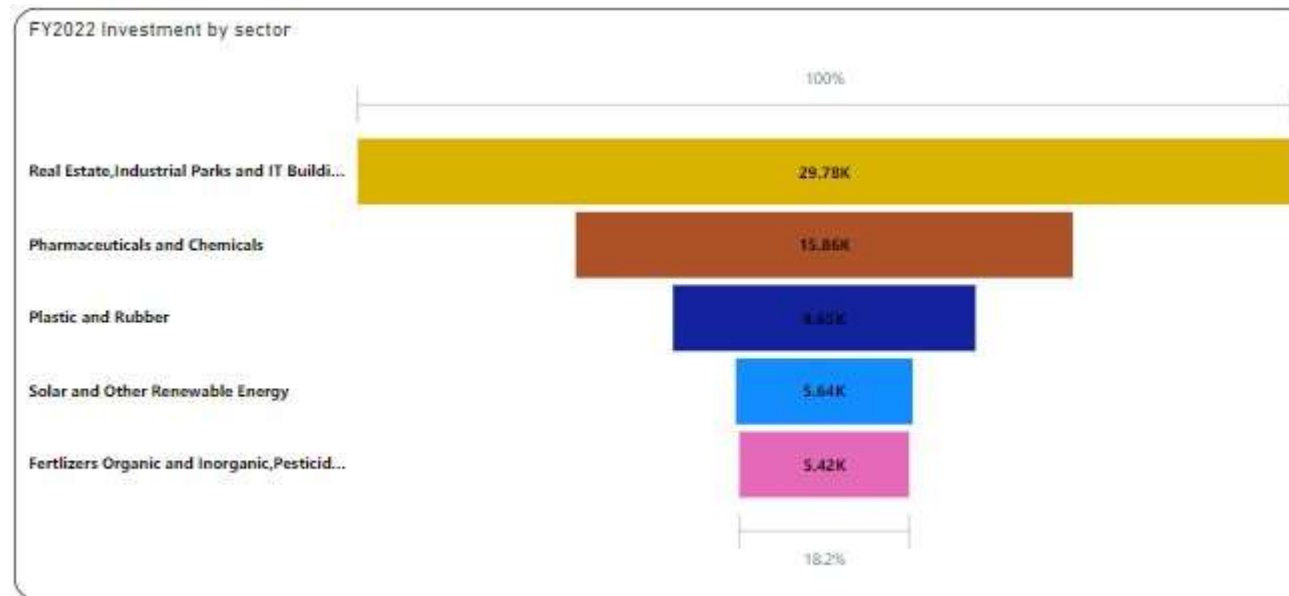
I've analyzed Telangana's TS-iPASS dataset, a government initiative aimed at simplifying project approvals to boost industrial growth. The analysis uncovers significant trends in investments across diverse sectors and throughout different months. These insights can inform policy decisions, economic planning, and investment strategies, contributing to the state's industrial development and economic growth.



TOP SECTORS FOR INVESTMENT

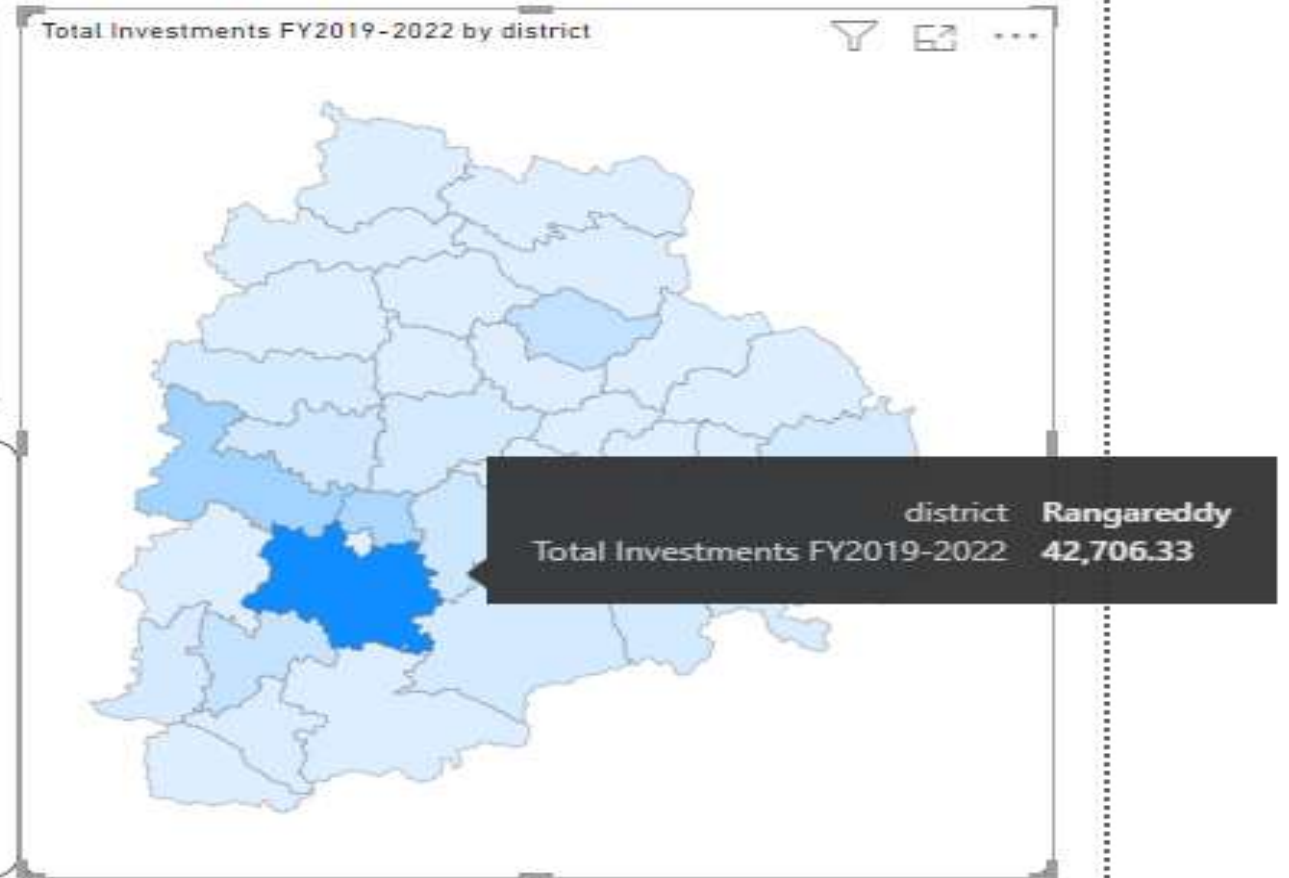
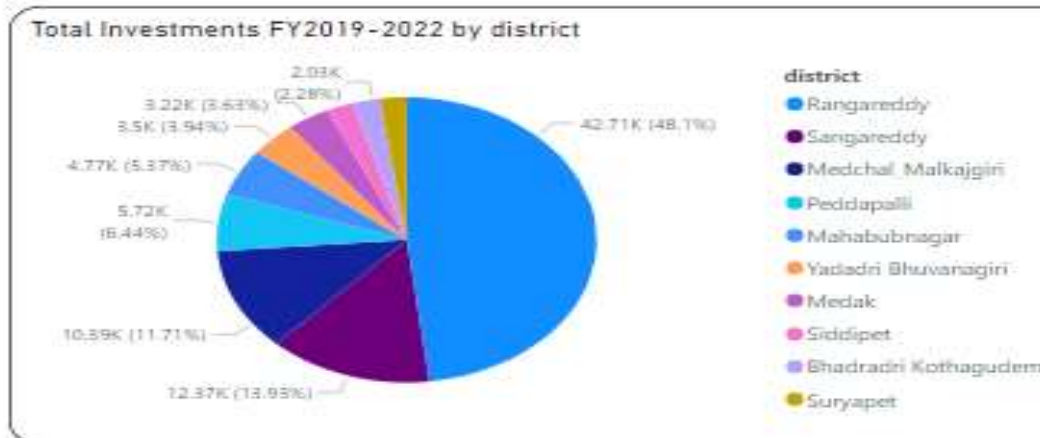
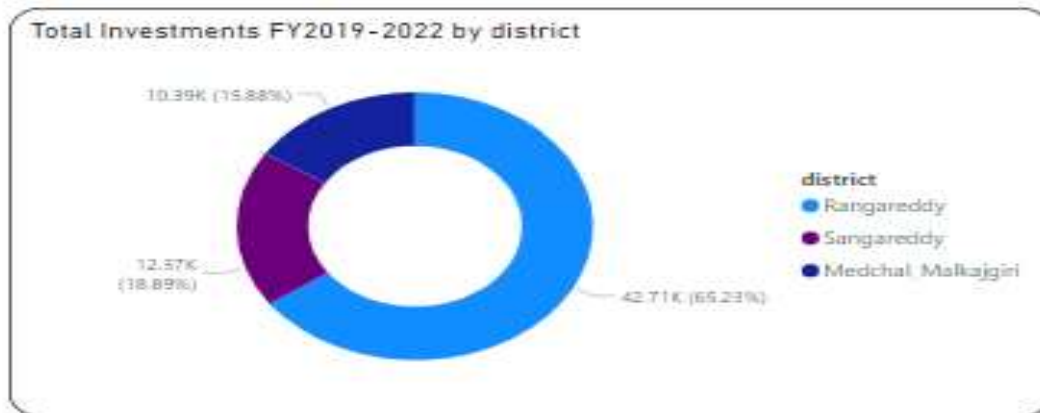
The top 5 sectors that have witnessed the most significant investments in FY 2022 are as:

1. Plastic and Rubber: Sector with the highest investment of ₹ 58.5Bnin FY 2022
2. Pharmaceuticals and Chemicals: Second highest investment of ₹ 21.81Bn in FY 2022
3. Real Estate, Industrial Parks and IT Buildings: Investment of ₹ 21.27Bnin FY 2022
4. Solar and Other Renewable Energy: Another fast-growing sector with investment of ₹ 20.52Bn in FY 2022
5. Engineering: Invest of ₹ 18.77Bnin FY 2022

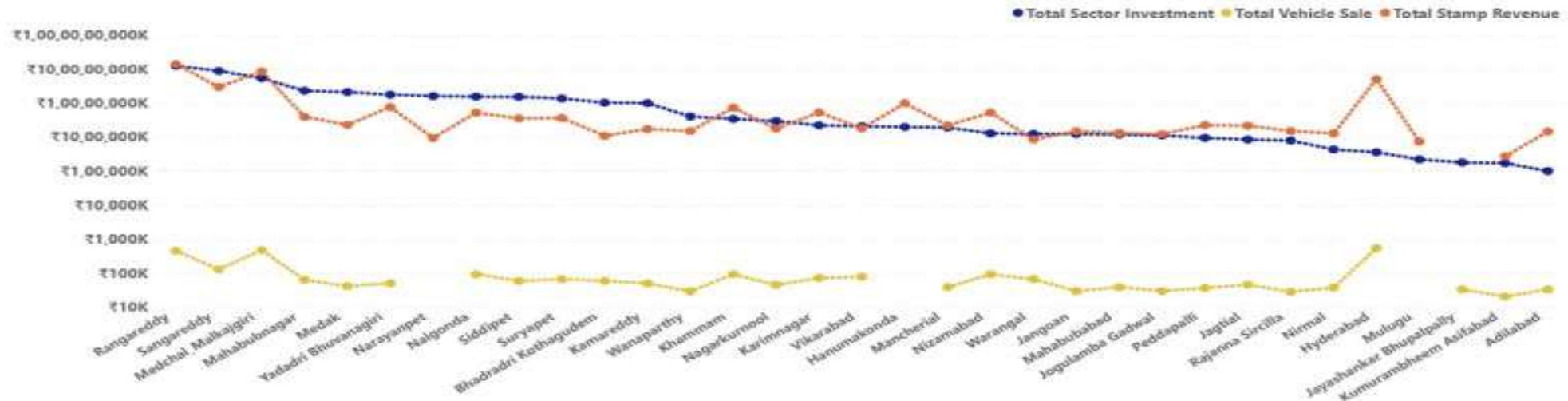


INVESTMENT ACROSS TOP DISTRICTS

The top districts that have attracted the most significant sector investments during FY 2019 to 2022 are:



COMPARISON OF REVENUE IN ALL SECTORS



district	Total Investments FY2019-2022	Total Vehicle Sales	Total EStamps Revenue
Rangareddy	42,706.33	926633	81336993463
Sangareddy	12,366.76	275327	16708219605
Medchal Malkajgiri	10,394.56	992377	48819368222
Peddapalli	5,715.39	92708	1271068835
Mahabubnagar	4,771.89	169952	2236920432
Yadadri Bhuvanagiri	3,499.88	118597	4254388510
Medak	3,224.02	98686	1250558303
Siddipet	2,047.25	142844	1947542406
Bhadrachari Kothagudem	2,028.50	146785	616009645
Suryapet	2,028.43	164007	2092895272
Kamareddy	1,937.06	128648	982520443
Nalgonda	1,801.43	228112	3009297574
Narayanpet	1,615.68		517604092
Khammam	786.15	219643	4200231368
Wanaparthy	559.80	72943	830193696
Total	99,133.47	6665777	220681754258



IPASS Analysis

675K

Sum of number_of_employees

99.13K

Sum of investment in cr.

fiscal_year

All

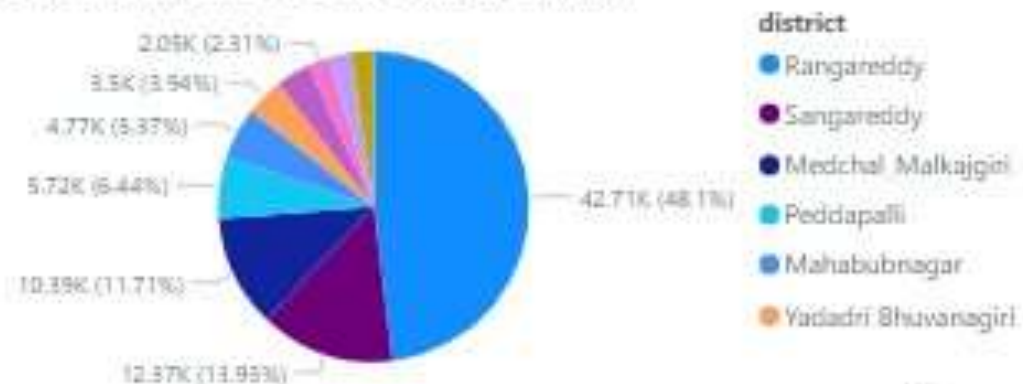
sector

All

Sum of investment in cr by sector

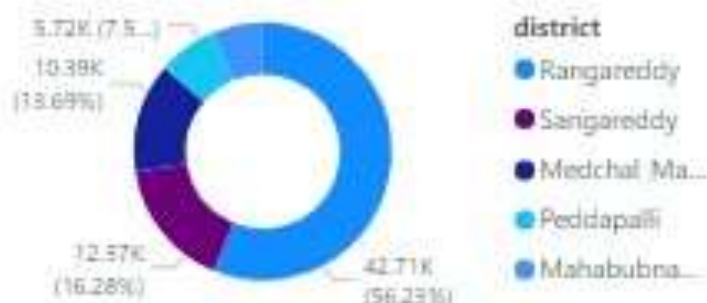


Total Investments FY2019-2022 by district

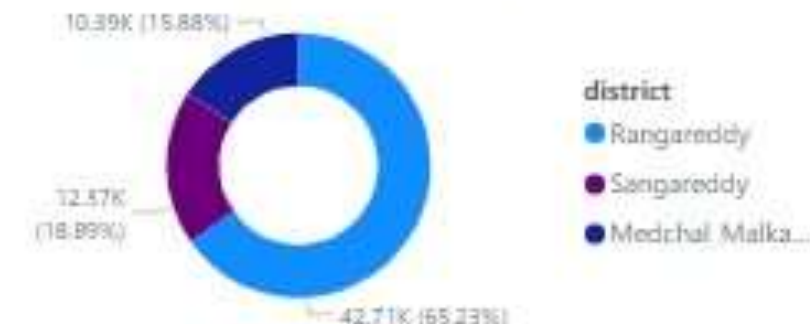


district	Total Investments FY2019-2022	Total Vehicle Sales	Total EStamps Revenue
Rangareddy	42,706.33	926633	81336993463
Sangareddy	12,366.76	275322	16708219605
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Yadadri Bhuvanagiri	3,499.88	118597	4254388510
Medak	3,224.02	98686	1250558303
Siddipet	2,047.25	142844	1947542406
Bhadrachalam	2,028.50	146785	616009645
Total	99,133.47	6665777	220681754258

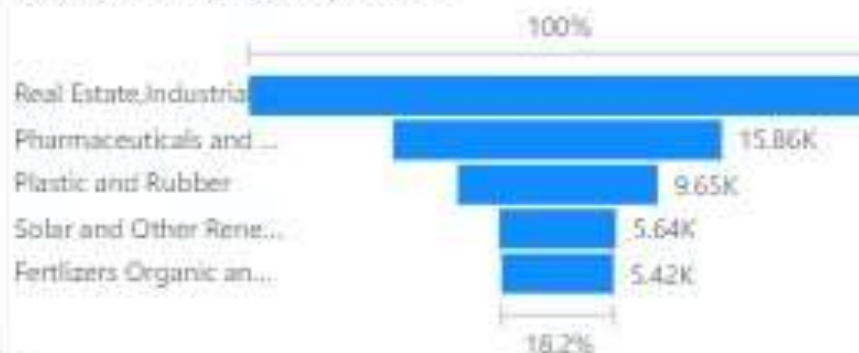
FY2021 Investment Sales by district



Total Investments FY2019-2022 by district



FY2022 Investment by sector





SECONDARY RESEARCH

We have utilized data from Telangana Industries TS-iPASS for our secondary research and analysis, enabling a deeper and more comprehensive understanding of the varied industrial sectors within the region



DISTRICTS TO BUY COMMERCIAL PURPOSES

The Districts to buy commercial purposes are sorted as follows:

district	Sum of investment in cr
Rangareddy	42,706.33
Sangareddy	12,366.76
Medchal_Malkajgiri	10,394.56
Peddapalli	5,715.39
Mahabubnagar	4,771.89
Yadadri Bhuvanagiri	3,499.88
Medak	3,224.02
Siddipet	2,047.25
Bhadradi Kothagudem	2,028.50
Suryapet	2,028.43
Kamareddy	1,937.06
Nalgonda	1,901.43
Narayanpet	1,615.68
Khammam	786.15
Wanaparthi	559.80
Warangal	510.32
Karimnagar	425.09
Mancherial	385.50
Nagarkurnool	359.60
Vikarabad	303.99
Nizamabad	219.05
Hanumakonda	196.67
Mahabubabad	179.10
Total	99,133.47

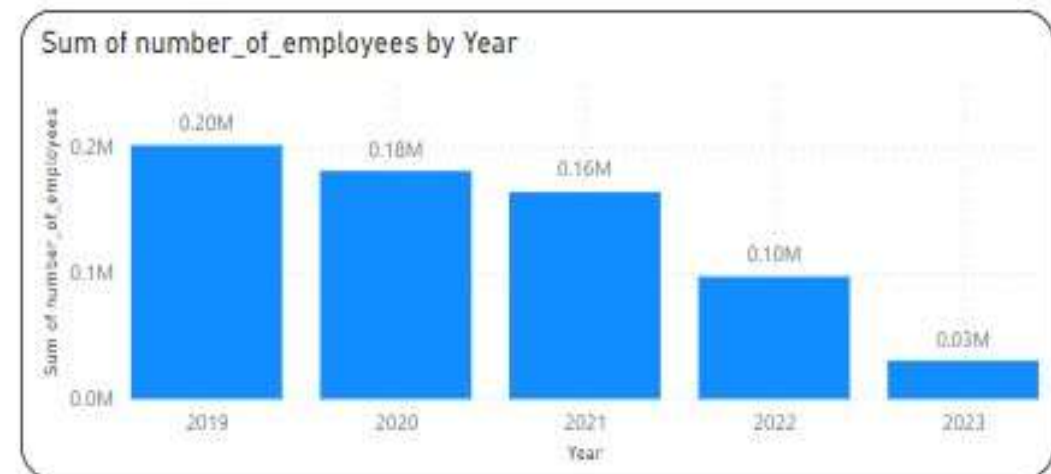
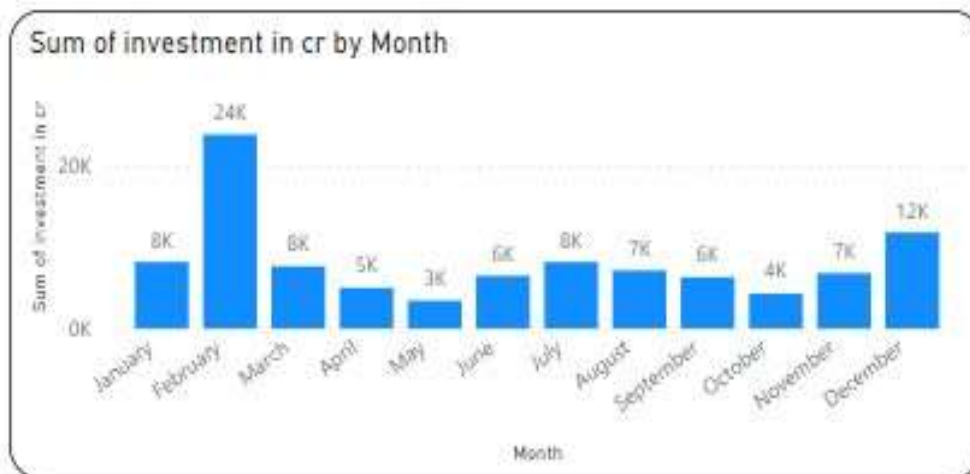
district	Sum of number_of_employees
Rangareddy	387758
Sangareddy	74292
Medchal_Malkajgiri	62662
Yadadri Bhuvanagiri	25829
Mahabubnagar	16094
Medak	13782
Karimnagar	10173
Nalgonda	9954
Siddipet	9044
Warangal	6884
Rajanna Sircilla	5747
Khammam	5555
Suryapet	5524
Kamareddy	4932
Jagtial	3830
Vikarabad	3828
Peddapalli	2915
Nizamabad	2787
Wanaparthi	2398
Nagarkurnool	2246
Mahabubabad	2214
Jangoan	2152
Narayanpet	2068
Total	675081



POLICES OF GOVERNMENT IMPACTS

Investment and Employment Trends Over Years

- ❑ Investment: The graph shows a consistent trend in investment over the years, suggesting that the investment climate is favorable. This could be attributed to various government policies aimed at encouraging business activities.
- ❑ Employment: Similar to investment, the number of employees also shows a steady trend. This indicates that employment opportunities are increasing, possibly due to government initiatives aimed at job creation.



TOP 2 INSIGHTS & 2 RECOMMENDATIONS **TO TELANGANA GOVERNMENT**

Investment Diversification: While Telangana has attracted significant investments in IT and pharmaceuticals, diversifying into emerging sectors like renewable energy, electric vehicles, and advanced manufacturing can help reduce dependency on a few industries and stimulate overall economic growth

Rural Development: Ensuring that economic growth reaches rural areas through agricultural modernization, rural infrastructure development, and support for small and medium-sized enterprises (SMEs) can promote inclusive growth.

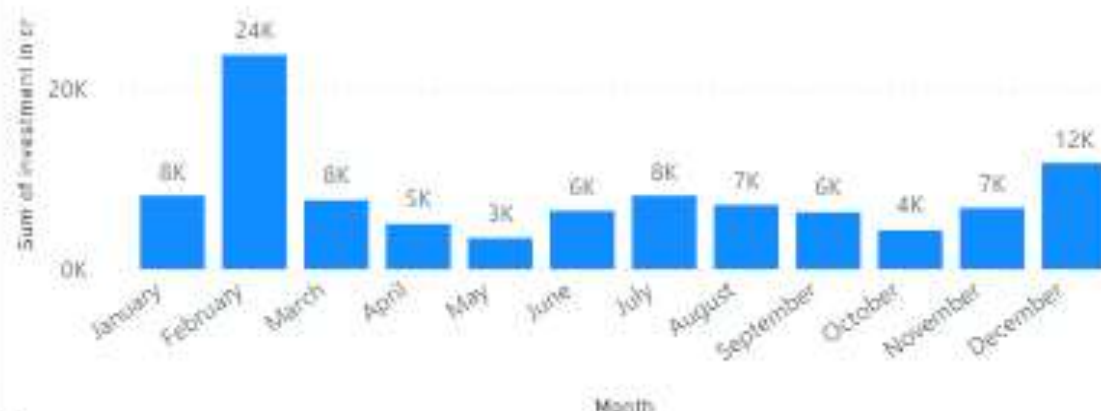
Investment Promotion: Intensify efforts to market Telangana as an attractive investment destination through targeted campaigns and participation in global trade events and exhibitions.

infrastructure Development: Prioritize infrastructure projects, including the expansion of transportation networks, affordable housing, and the development of smart cities, to accommodate population growth and industrial expansion.

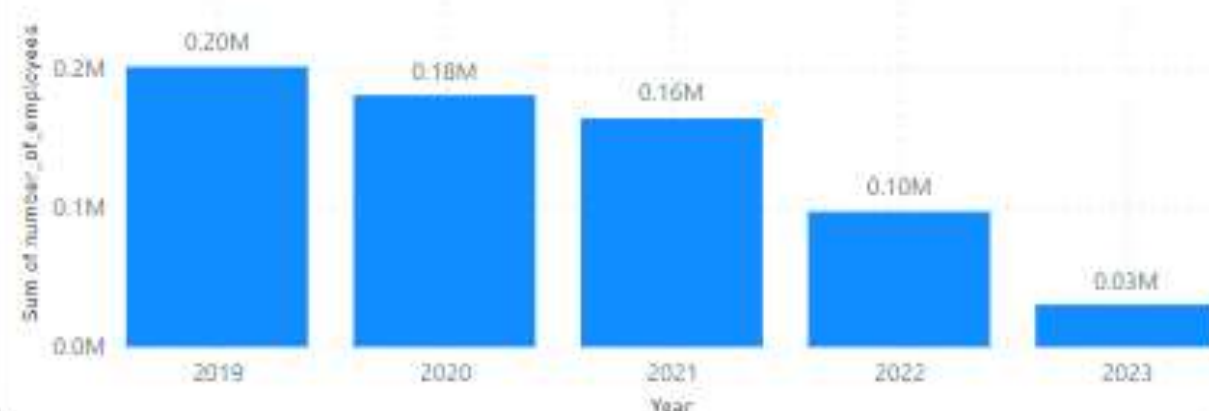


Secondary Insights

Sum of investment in cr by Month



Sum of number_of_employees by Year



district	Sum of investment in cr
Rangareddy	42,706.33
Sangareddy	12,366.76
Medchal_Malkajgiri	10,394.56
Peddapalli	5,715.39
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Yadadri Bhuvanagiri	25829
Mahabubnagar	16094
Medak	13782
Karimnagar	10173
Nalgonda	9954
Siddipet	9044
Total	675081

Sum of investment in cr by district



Thank You

Name – Souvik Sasmal

Gmail - sasmalsouvik333@gmail.com

LinkedIn - www.linkedin.com/in/souvik-sasmal-010a1320b

GitHub - github.com/souviksas2001

