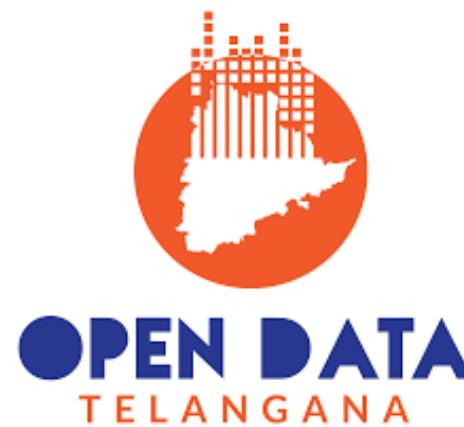


TELANGANA GROWTH ANALYSIS 2019-22

by



In Collaboration with



Presented By
Umesh Ramteke



About Telangana

- ❑ Telangana is the 29th state of India, formed on the 2nd of June 2014.
- ❑ The capital of Telangana is Hyderabad, which is also known as Cyberabad and serves as a major technology and business hub.
- ❑ Telangana has a rapidly growing economy with a primary focus on technology, agriculture, manufacturing, healthcare, and education.
- ❑ It is home to India's information, technology industry, with HITEC City in Hyderabad being a prominent IT hub.
- ❑ Telangana has emerged as an industrial power house, with a favorable business environment, industrial parks, and investment- friendly policies that have attracted both national and international companies.
- ❑ The state has witnessed remarkable infrastructure development, including the construction of the Hyderabad Metro, modern airports, and improved road connectivity.

Objectives

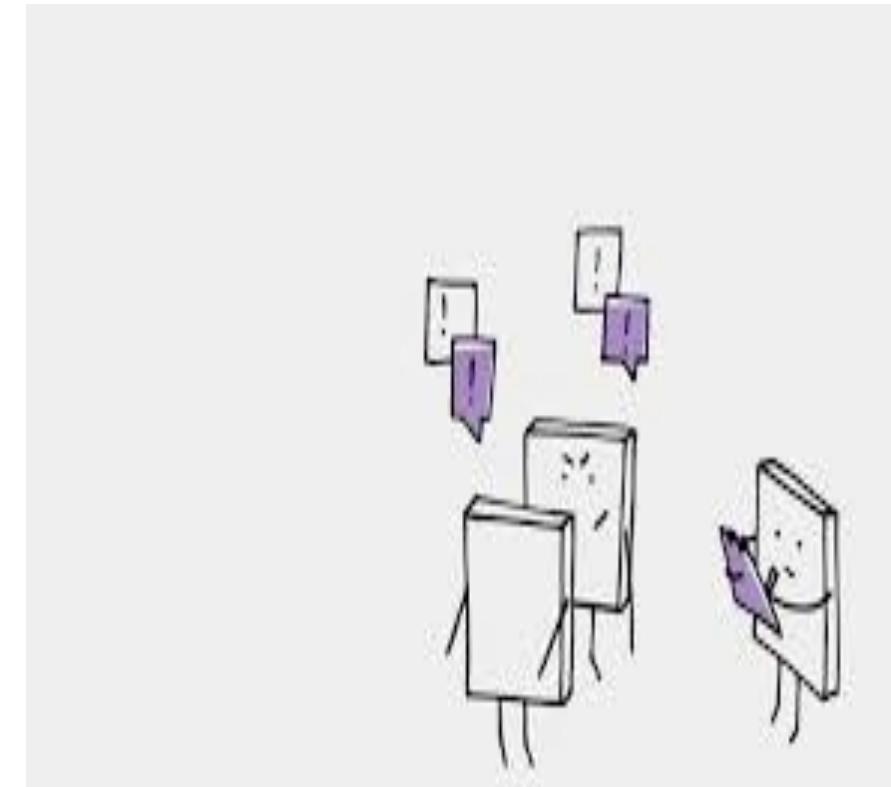
- Explore Stamp Registration, Transportation and Ts-Ipass Datasets.
- Understand their attributes, categories and time period.
- Analyze trends and patterns within each department.
- Identify growth opportunities and areas needing attention.
- Find correlation among these departments and report the overall growth of the state through insights and relevant visuals such

PRIMARY RESEARCH

Stamp Registration

Transportation

Ts- IPASS (Telangana State Industrial Project
Approval and Self Certification System)



TOOL USED

Microsoft Excel

Microsoft Power BI

Microsoft PowerPoint

STAMP REGISTRATION

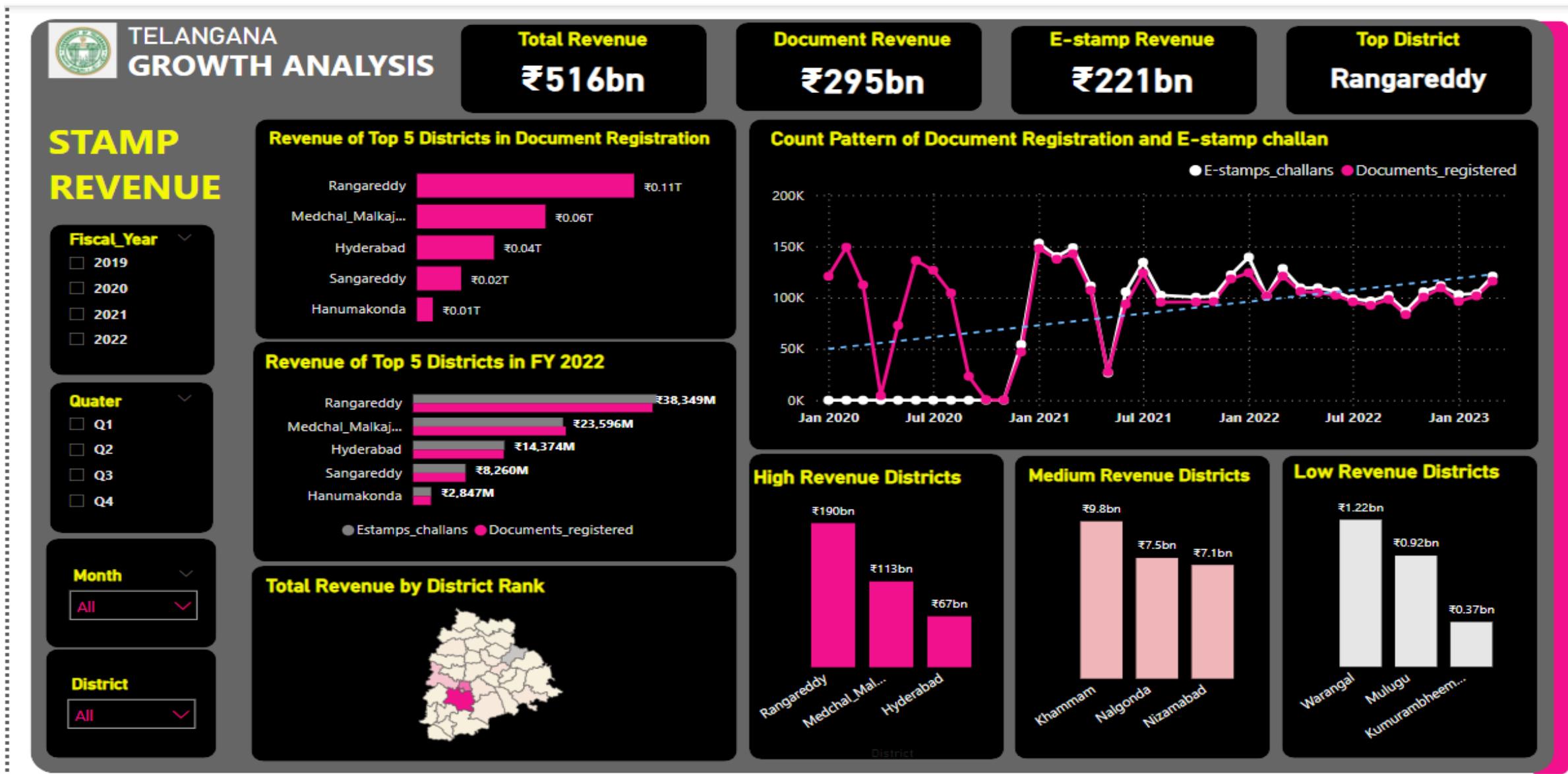


Document Registration



E-stamp Challan

STAMP REVENUE ANALYSIS

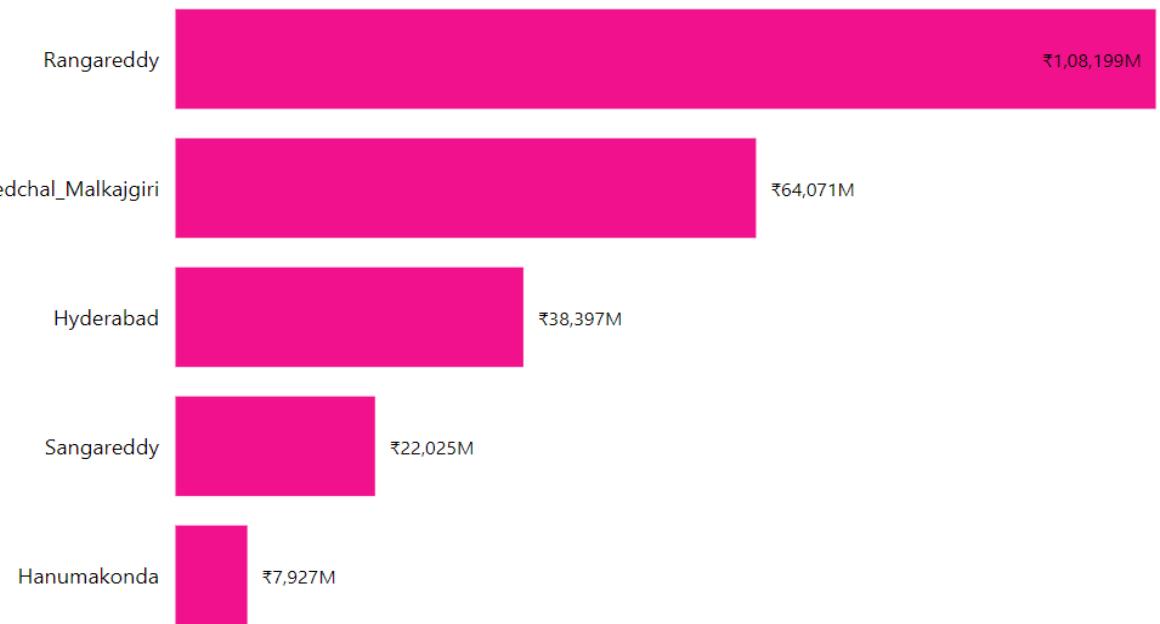


1. How does the Revenue generated from Document Registration vary across Districts in Telangana? List down the Top 5 Districts that showed the highest Document Registration Revenue growth between FY 2019 and 2022.

Document Registration across Districts

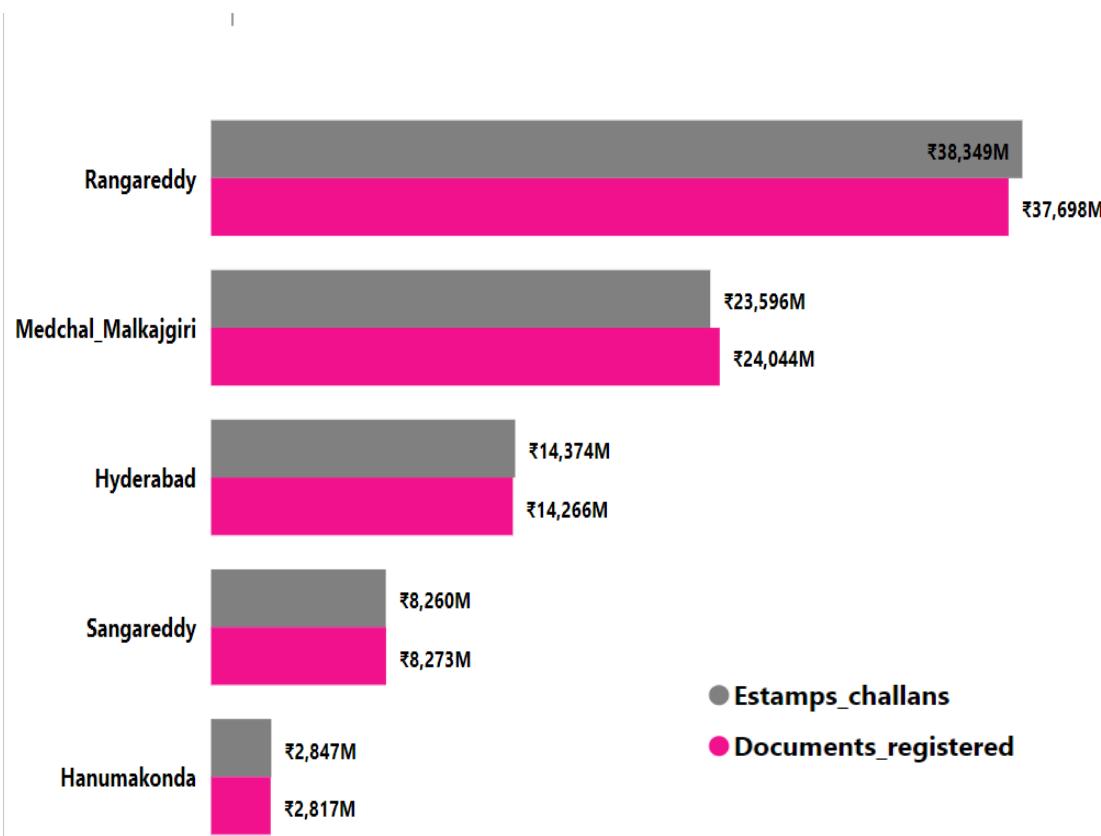


Revenue of Top 5 Districts in Document Registration



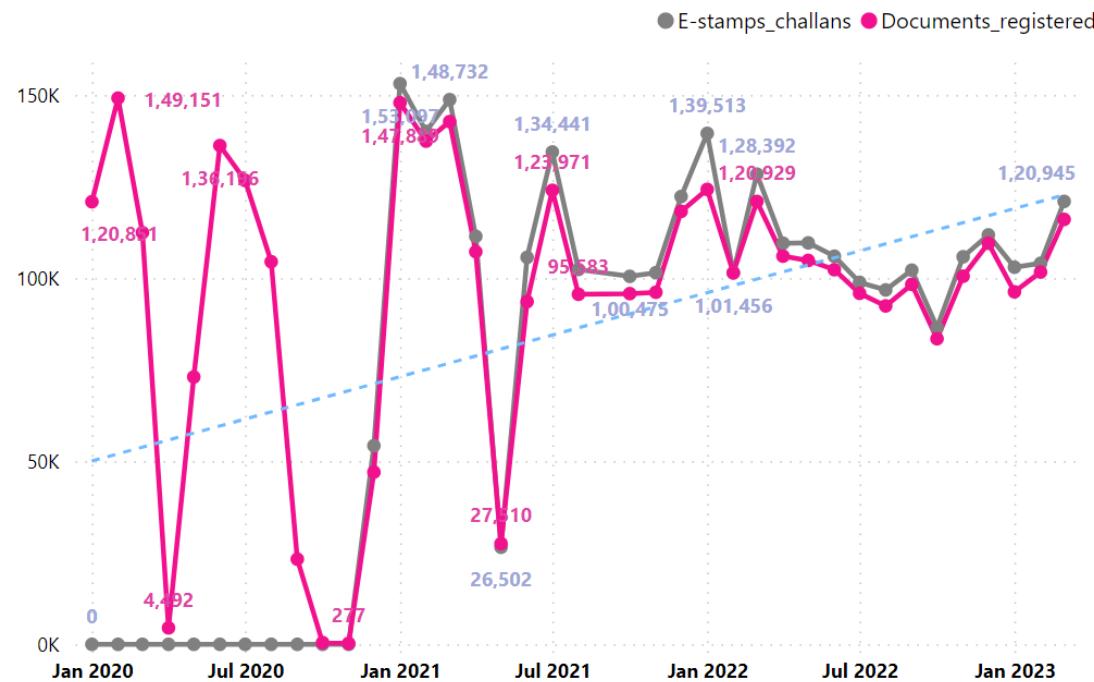
- From FY 2019 to 2022, **Rangareddy** is the top most district in document registration revenue, followed by **Medchal Malkajgiri, Hyderabad, Sangareddy and Hanumankonda**.
- These top performing districts play pivotal roles in the state's revenue generation, reflecting their importance in Telangana's overall economic landscape. Further examination of the factors contributing to this growth can inform strategic planning for sustained economic progress in the region.

2. How does the Revenue generated from Document Registration compare to the revenue generated from E-stamp Challans across districts? List down the top 5 districts where E-stamps revenue contributes significantly more to the revenue than the documents in FY 2022?



- In FY 2022, Rangareddy again surpasses other districts in E-stamp Revenue.
- Only Medchal Malkangiri has more Document revenue than E-stamp challan Revenue.
- The increase in the revenue generation through E-stamp Challans is a positive sign.
- It enhances transparency, and contribute to reducing corruption.
- It also reflects the modernization of financial processes, making it more convenient for people to pay stamp duty, ultimately fostering economic growth and efficiency in Telangana's economy.

3 Is there any alteration of e-Stamp Challan count and Document Registration count pattern since the implementation of e-Stamp challan? If so, what suggestions would you propose to the government?



- The count of Document Registration start declining from **July 2020** and it comes to **277 in November 2020**.
- Since the implementation of e-Stamp challans (**December 2020**), there has been a substantial increase in their count, surpassing document registration counts.

Suggestions:-

- ❖ Promote e-Stamp benefits through awareness campaigns.
- ❖ Invest in robust digital infrastructure for seamless transactions.
- ❖ Offer incentives like rewards or discounts for e-Stamp usage.
- ❖ Provide online training resources to educate users on e-Stamp processes.
- ❖ Offer user support services to assist with e-Stamp-related issues.
- ❖ Maintain transparency in revenue collection and utilization for citizen trust.

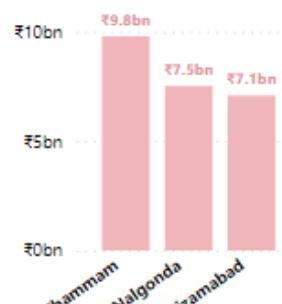
4 Categorize districts into three segments based on their stamp registration revenue generation during the fiscal year 2021 to 2022.

District Rank	District	Total Revenue	YoY% Total Revenue
1	Rangareddy	₹1,89,536M	11.24%
2	Medchal_Malkajgiri	₹1,12,891M	11.52%
3	Hyderabad	₹67,049M	13.81%
4	Sangareddy	₹38,733M	12.48%
5	Hanumakonda	₹13,679M	11.06%
6	Yadadri Bhuvanagiri	₹10,228M	13.57%
7	Khammam	₹9,814M	10.60%
8	Nalgonda	₹7,531M	10.06%
9	Nizamabad	₹7,094M	11.83%
10	Karimnagar	₹7,014M	12.84%
11	Mahabubnagar	₹5,424M	9.92%
12	Suryapet	₹4,995M	11.67%
13	Siddipet	₹4,573M	13.54%
14	Medak	₹3,016M	12.39%
15	Peddapalli	₹3,012M	11.38%
16	Mancherial	₹2,915M	12.51%
17	Jagtial	₹2,869M	13.92%
18	Kamareddy	₹2,379M	11.69%
19	Vikarabad	₹2,377M	11.61%
20	Nagarkurnool	₹2,339M	11.35%
21	Jangoan	₹2,173M	12.65%
22	Rajanna Sircilla	₹1,995M	14.35%
23	Wanaparthy	₹1,957M	14.49%
24	Adilabad	₹1,898M	14.78%
25	Mahabubabad	₹1,838M	11.63%
26	Nirmal	₹1,696M	12.75%
27	Jogulamba Gadwal	₹1,688M	11.39%
28	Bhadradri Kothagudem	₹1,441M	10.62%
29	Narayanpet	₹1,240M	14.65%
30	Warangal	₹1,223M	11.32%
31	Mulugu	₹924M	12.81%
32	Kumurambheem Asifabad	₹373M	11.88%
33	Jayashankar Bhupalpally		
1		₹5,15,911M	11.87%

High Revenue Districts



Medium Revenue Districts

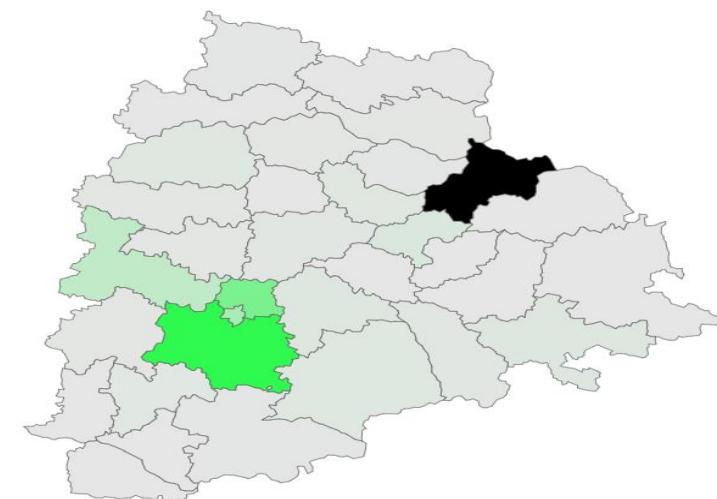


Low Revenue Districts

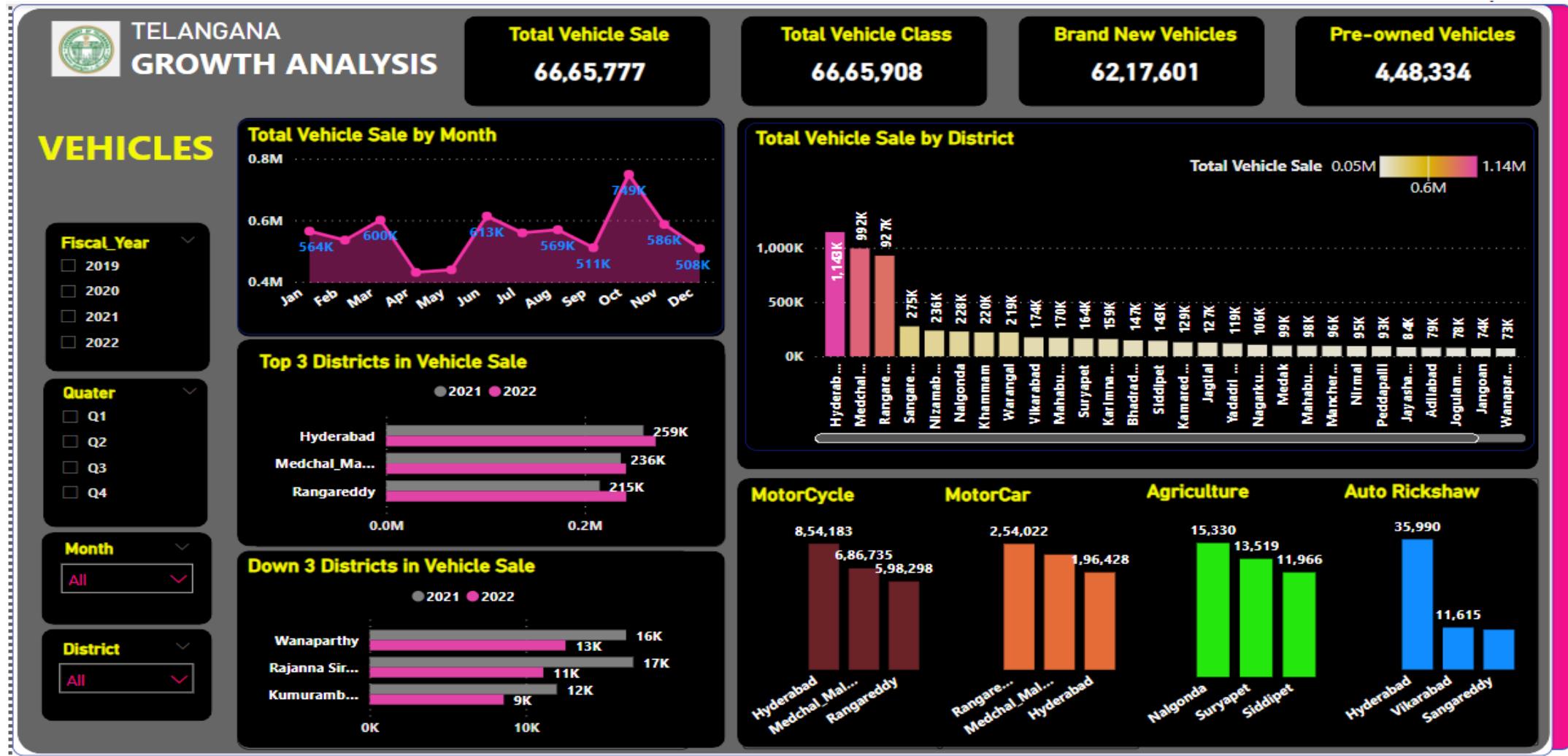


In fiscal year 2021-2022, we categorized Telangana districts into three segments based on stamp registration revenue.

- The High Revenue districts are Rangareddy, Medchal Malkangiri and Hyderabad
- The Medium Revenue districts are Khammam, Nalgonda and Nizamabad.
- The Low Revenue districts are Warangal, Mulugu and Kumurambheem Asifabad.



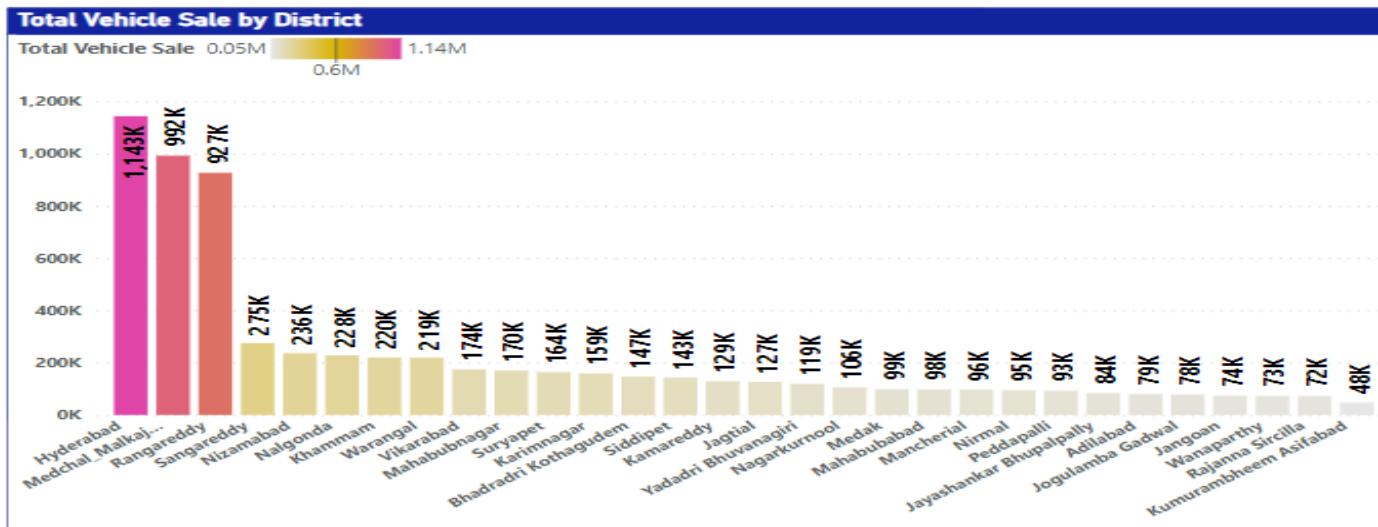
TRANSPORTATION



5 Investigate whether there is any correlation between vehicle sales and specific months or seasons in different districts. Are there any months or seasons that consistently show higher or lower sales rate, and if yes, what could be the driving factors? (Consider Fuel-Type category only)



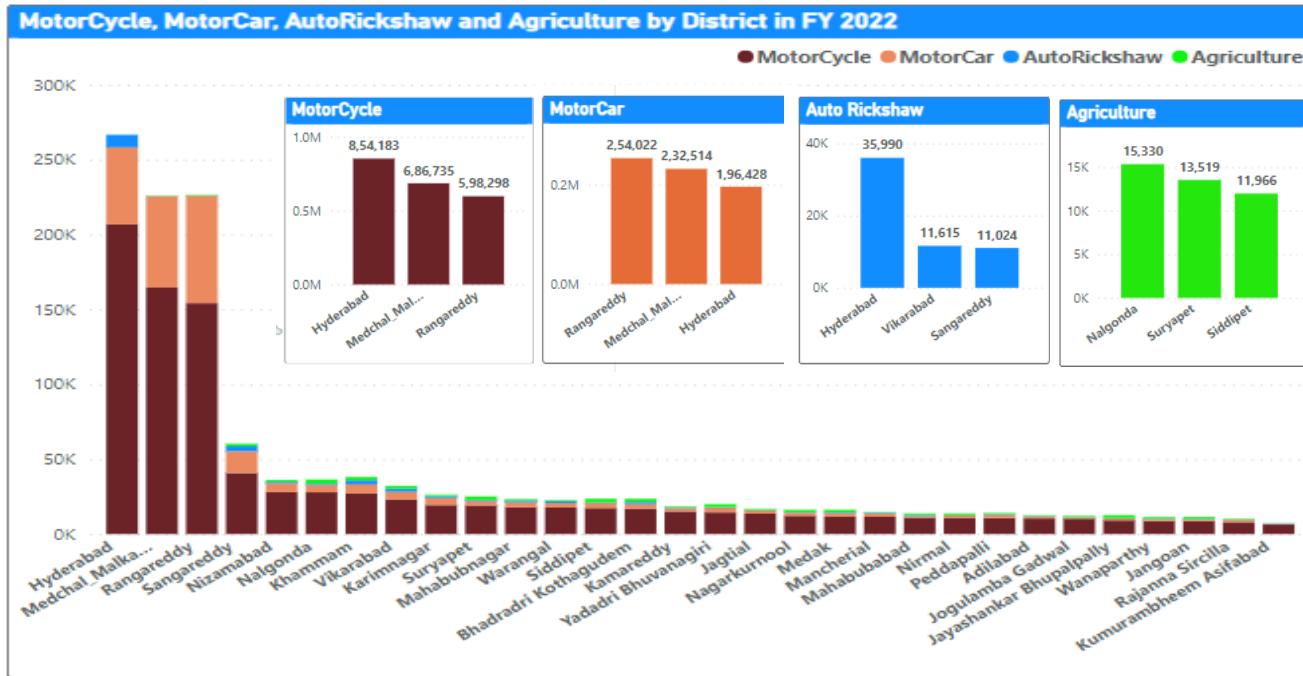
Month	Hyderabad	Medchal_Malkajgiri	Nizamabad	Rangareddy	Sangareddy	Total
Oct	1,24,646	1,10,622	28,887	1,02,260	29,854	3,96,269
Mar	1,08,781	93,590	18,838	86,816	25,725	3,33,750
Aug	1,05,226	88,418	20,163	82,717	22,885	3,19,409
Nov	1,02,456	89,041	21,818	81,179	23,599	3,18,093
Jun	97,890	85,487	22,294	79,999	24,253	3,09,923
Jan	95,090	81,714	18,494	78,064	23,407	2,96,769
Jul	95,354	82,340	19,165	76,784	21,993	2,95,636
Feb	91,332	79,445	19,051	73,547	23,520	2,86,895
Dec	87,164	80,375	19,488	76,494	21,735	2,85,256
Sep	93,040	77,635	17,645	74,530	21,595	2,84,445
Apr	74,320	65,741	13,752	58,943	18,189	2,30,945
May	68,180	57,969	16,514	55,300	18,572	2,16,535
Total	11,43,479	9,92,377	2,36,109	9,26,633	2,75,327	35,73,925



The investigation reveals a positive correlation between vehicle sales and specific months or seasons across different districts.

- **Higher sales** consistently occur in **October, March, August, June and November** attributed to Festive Season like Diwali, increased demand, and favorable weather conditions.
- **Lower sale** consistently occurs in **April, May, September and December** due to financial constraints, and adverse weather conditions.
- Districts like **Hyderabad, Medchal Malkajgiri, Rangareddy, Sangareddy, and Nizamabad**, higher in Sales.
- Understanding these trends can aid in strategic planning for the automotive industry in each district.

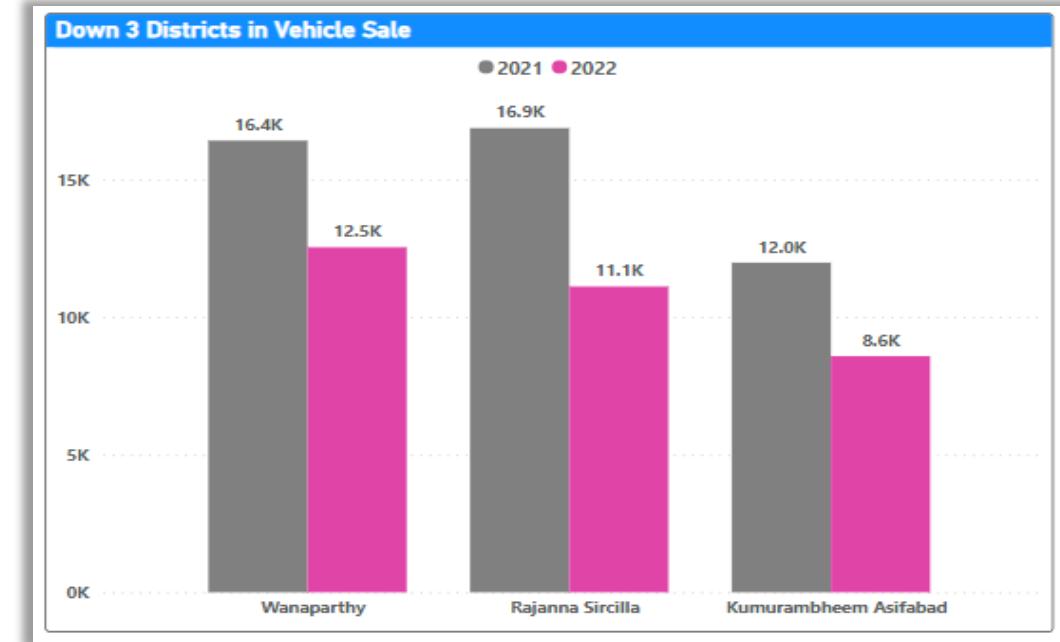
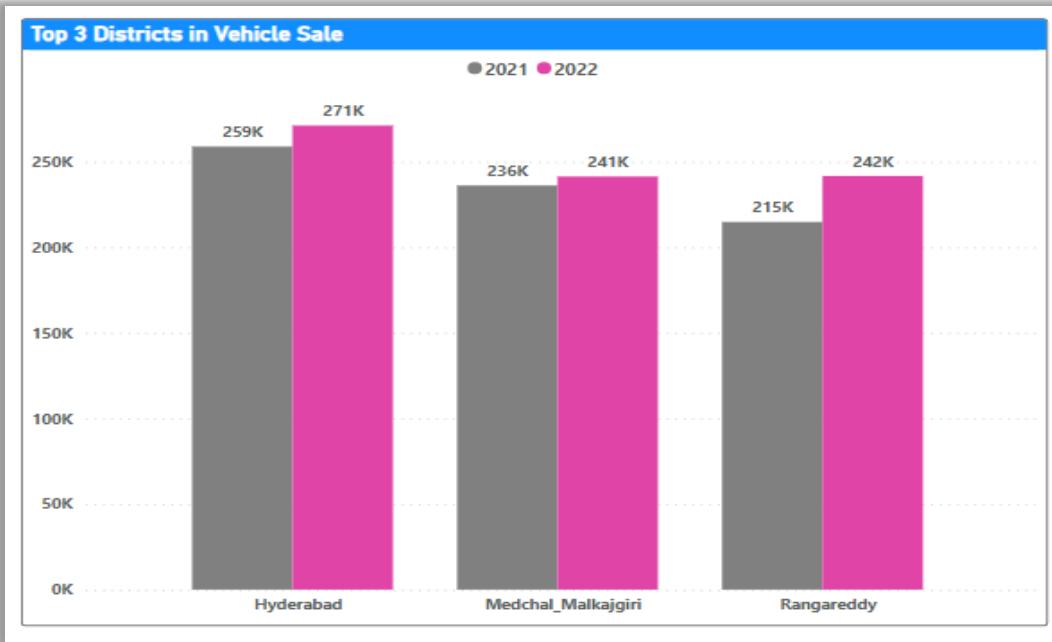
6 How does the distribution of vehicles vary by vehicle class (MotorCycle, MotorCar, AutoRickshaw, Agriculture) across different districts? Are there any districts with a predominant preference for a specific vehicle class? Consider FY 2022 for analysis.



District	MotorCycle	MotorCar	AutoRickshaw	Agriculture
Hyderabad	8,54,183	1,96,428	35,990	84
Medchal_Malkajgiri	6,86,735	2,32,514	115	1,616
Rangareddy	5,98,298	2,54,022	104	1,699
Sangareddy	1,86,260	52,080	11,024	6,562
Nizamabad	1,84,706	24,764	5,224	8,373
Warangal	1,66,957	24,407	4,778	8,157
Nalgonda	1,63,909	20,825	6,455	15,330
Khammam	1,61,383	23,911	7,414	11,580
Mahabubnagar	1,28,386	14,873	5,072	7,517
Vikarabad	1,25,128	19,373	11,615	7,995
Suryapet	1,17,325	12,185	2,762	13,519
Karimnagar	1,08,704	20,201	3,408	6,960
Bhadradri Kothagudem	1,06,154	15,053	5,571	8,564
Siddipet	1,05,980	13,115	2,506	11,966
Kamareddy	1,03,986	9,004	1,986	5,009
Jagtial	1,02,227	9,347	1,754	7,074
Yadadri Bhuvanagiri	81,772	12,453	4,772	8,521
Nagarkurnool	75,197	7,488	1,781	9,208
Nirmal	74,608	7,325	1,787	5,424
Mahabubabad	74,232	5,000	2,518	4,588
Mancherial	70,949	10,216	3,161	2,075
Medak	70,576	8,337	3,422	6,996
Peddapalli	68,951	10,176	1,800	4,581
Total	48,09,987	10,36,430	1,35,145	1,95,714

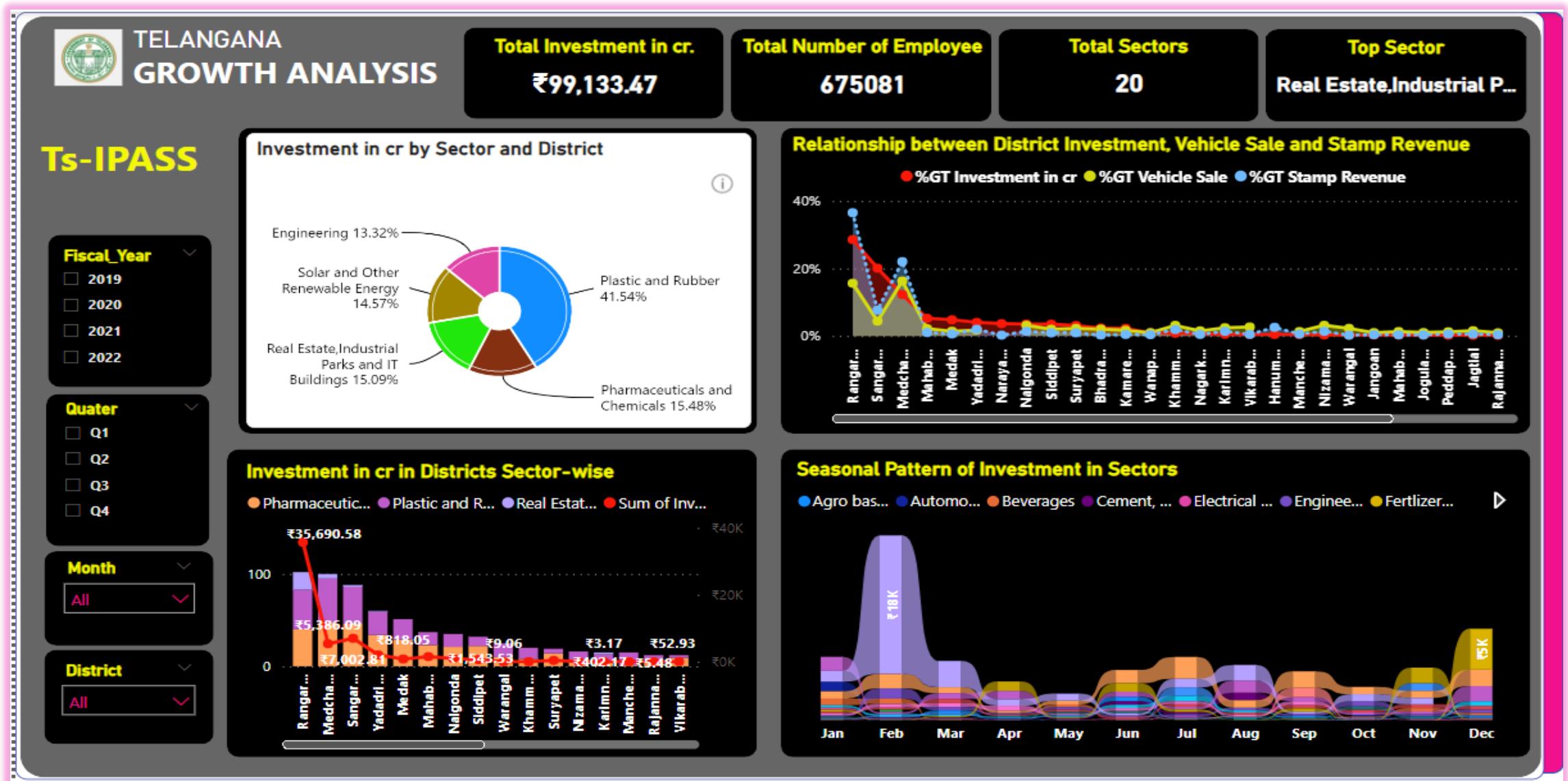
- As from Report, we can see Hyderabad, Medchal Malkangiri, Rangareddy, Sangareddy, Nizamabad, Warangal and Nalgonda are top most districts in vehicle class distribution.
- Hyderabad** has Motorcycle & Auto Rickshaw, **Rangareddy** has Motorcar and **Nalgonda** has Agriculture vehicle class preferences for the FY 2022.

7. List down **the top 3 and bottom 3 districts** that have shown the highest and lowest vehicle sales growth during FY 2022 compared to FY 2021? (Consider and compare categories: Petrol, Diesel and Electric)

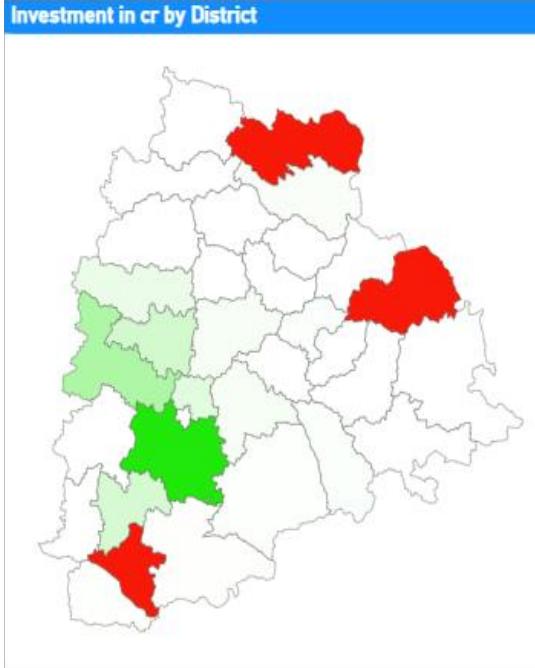
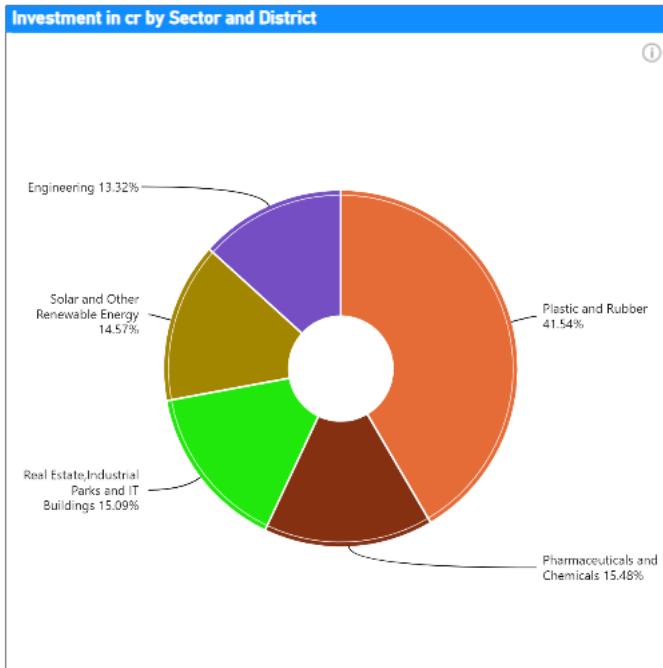


- Hyderabad, Medchal Malkangiri and Rangareddy ate the top 3 districts in vehicle sale in FY 2022**
- Kumurambheem Asifabad, Rajanna Sircilla and Wanaparthy are the bottom 3 districts in vehicle sale.**

TS - IPASS



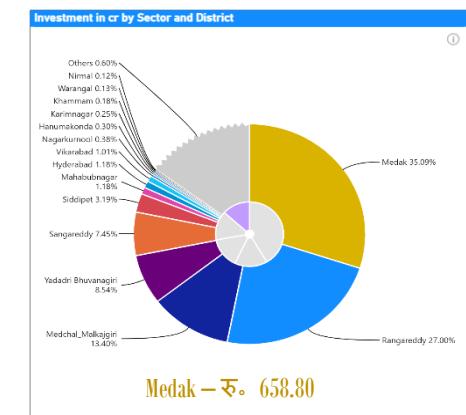
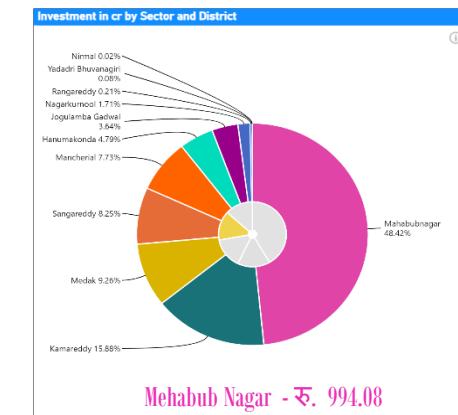
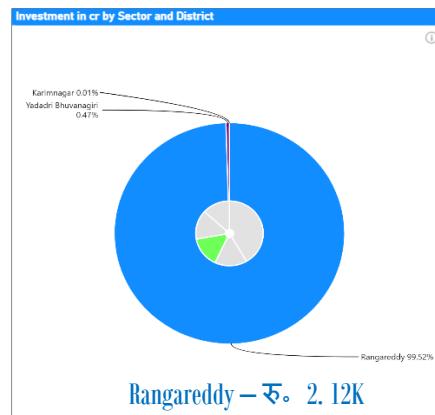
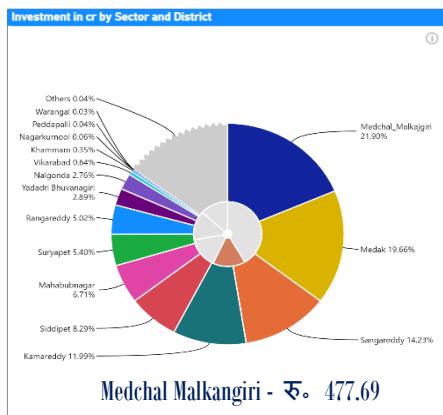
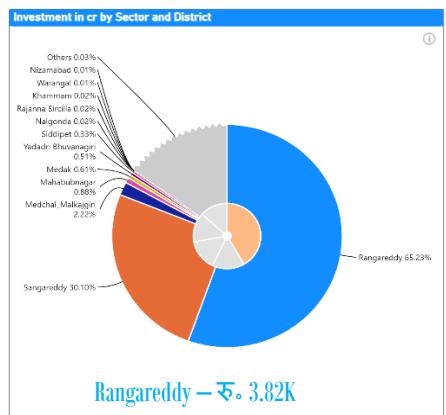
8. List down the top 5 sectors that have witnessed the most significant investments in FY 2022



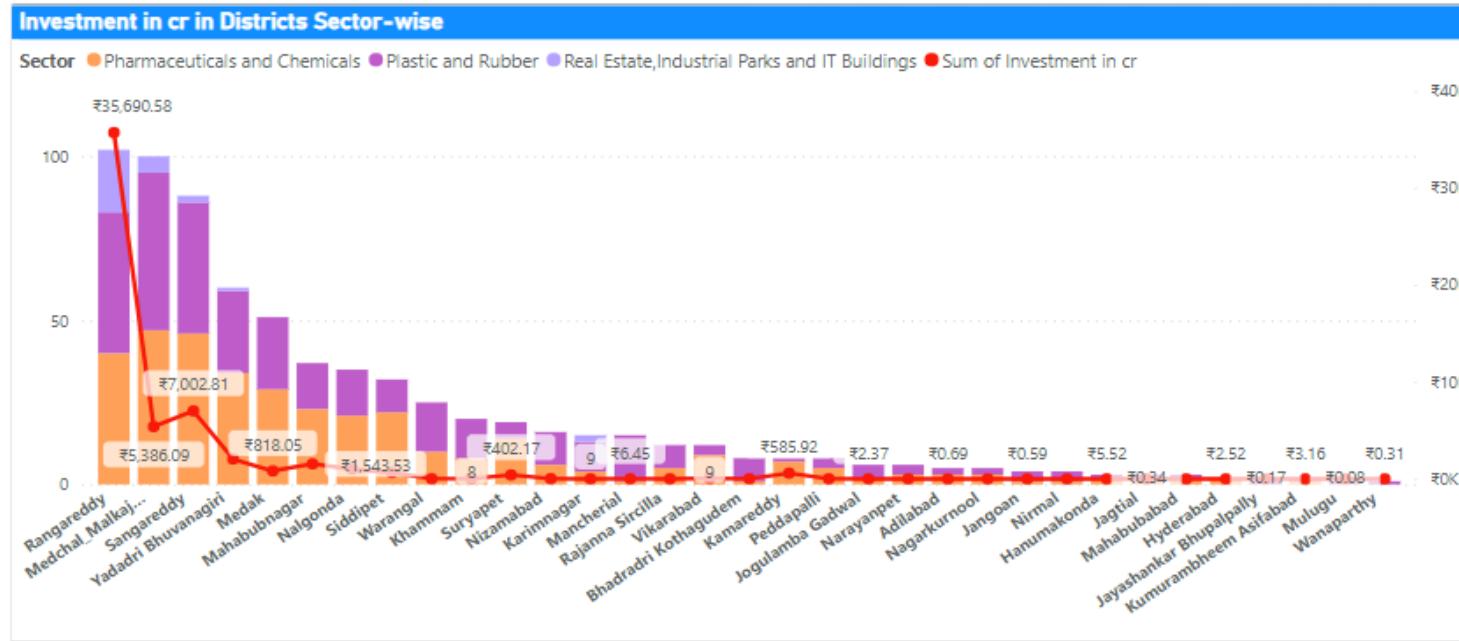
In FY 2022 following sectors are in top 5.

1. **Plastic & Rubber – ₹. 5.86K (41.54%)**
2. **Pharmaceutical & Chemicals – ₹. 2.18K (15.48%)**
3. **Real Estate, Industrial Parks and IT Buildings. – ₹. 2.13K (15.09%)**
4. **Solar and Other Renewable Energy – ₹. 2.05K (14.57%)**
5. **Engineering – ₹. 1.88K (13.32%)**

➤ **K. Asifabad, Mulugu and Wanaparthy does not have any investment in FY 2022.**



9. List down the top 3 districts that have attracted the most significant sector investments during FY 2019 to 2022? What factors could have led to the substantial investments in these particular districts?

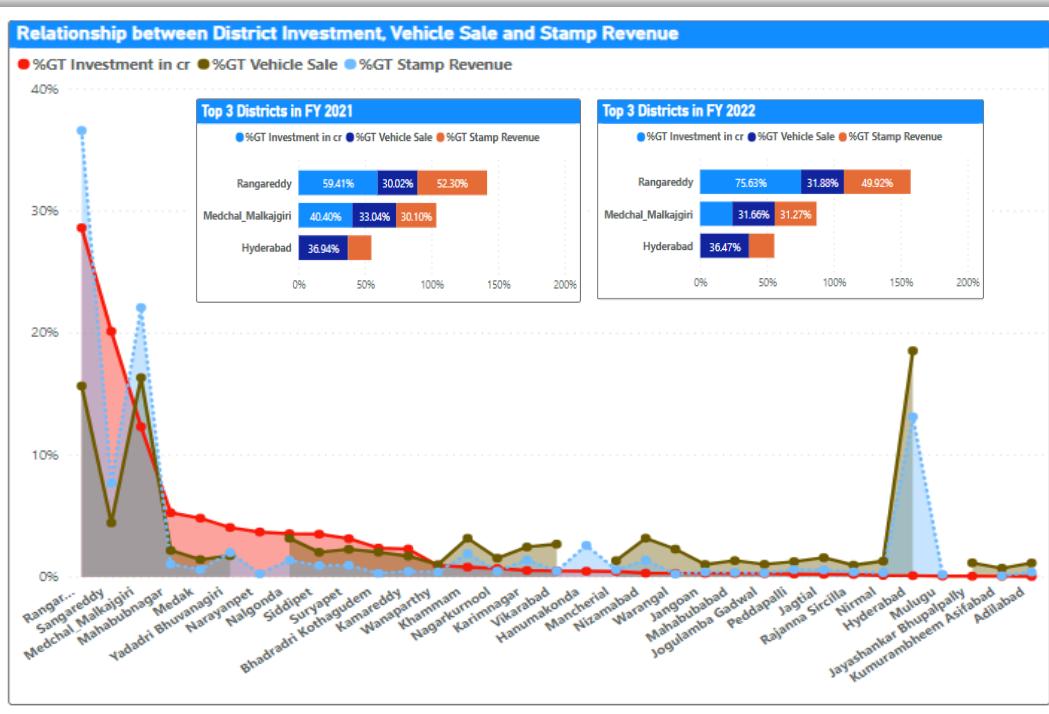


- During FY 2019 to 2022, **Rangareddy**, **Sangareddy**, and **Medchal Malkajgiri** emerged as the top three districts attracting substantial sector investments.
- Plastic & Rubber**, **Pharmaceutical & Chemicals** and **Real Estate, Industrial parks & IT Buildings** are most investment sectors.

Factors :-

- Proximity to major cities and transportation hubs.
- Well-developed roads, utilities, and facilities.
- Supportive government incentives and regulations.
- Availability of a skilled labor pool.
- Diverse economic opportunities and industries.
- Easy access to target markets and consumers.
- Attractive living conditions for employees and investors.

10. Is there any relationship between **District Investments**, **Vehicles Sales** and **Stamps Revenue** within the same district between FY 2021 and 2022?



Various other factors like Government's economic policies, overall economical status and availability of infrastructure can also play role in attracting investments.
Hence it is multifaced and complex relationship.

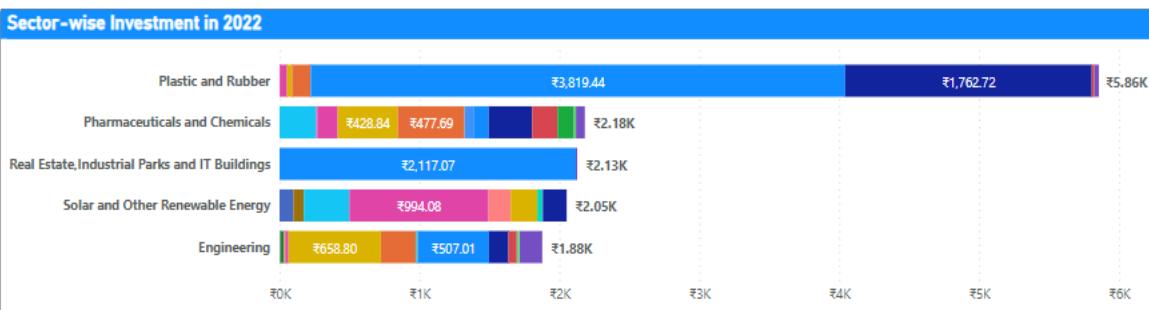
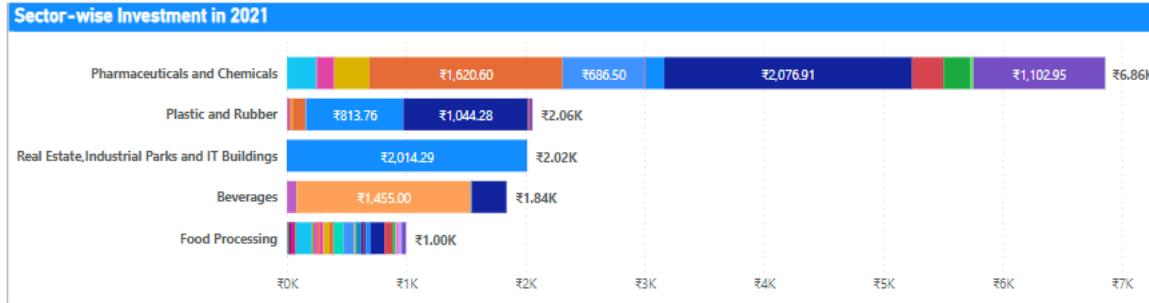
Several key relationships can be observed:

□ **Investments:** As the economy thrives, more people can afford vehicles, and there's an elevated demand for transportation-dependent goods and services.

□ **Vehicle Sales:** Greater vehicle sales can contribute to increased demand for stamps.

□ **Stamps Revenue:** A rise in stamp revenue can, in turn, drive increased investments within a district. Government-generated stamp revenue can be allocated to projects that attract investments, such as infrastructure development and educational initiatives.

11. Are there any particular sectors that have shown substantial investment in multiple districts between FY 2021 and 2022?

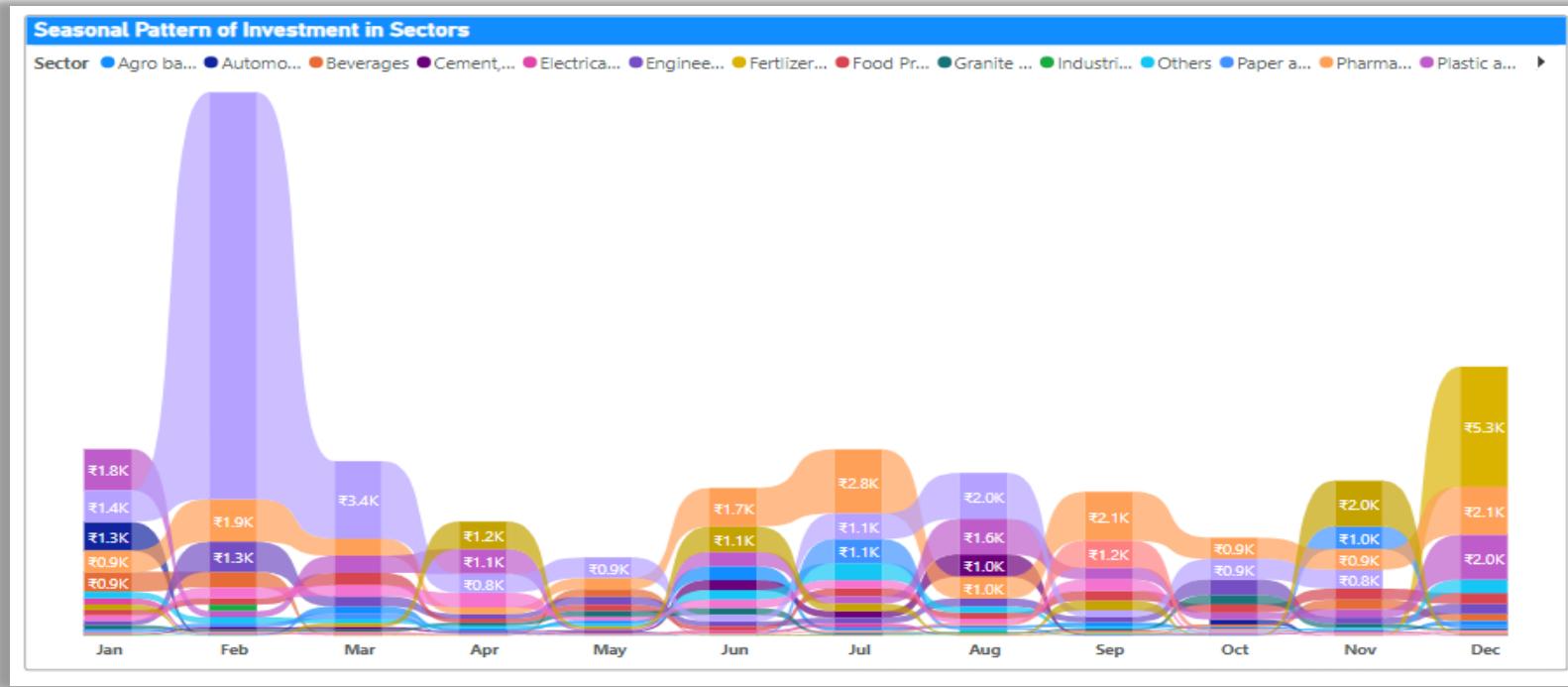


- **In FY 2021**, top 5 sector-wise investments was in Pharmaceutical & Chemicals, Plastic & Rubber, Real Estate, Industrial Parks & IT Buildings, followed by Beverages and Food Processing.
- **In FY 2022**, top 5 sector-wise investments occurred in Plastic & Rubber, Pharmaceutical & Chemicals, Real Estate, Industrial Parks & IT Buildings, followed by Solar & Other Renewable Energy and Engineering.



- **Plastic & Rubber sector:-** Rangareddy, Sangareddy
- **Pharmaceutical & Chemicals :-** Medak, Medchal Malkangiri
- **Real Estate, Industrial Parks :-** Rangareddy
- **Solar & other Renewable Energy :-** Mahabubnagar, Kamareddy
- **Engineering :-** Medak, Rangareddy

12. Can we identify any **seasonal patterns or **cyclical** in the investment trends for specific sectors? Do certain sectors experience higher investments during particular months?**



- **Highest investment** seen in the month of February, followed by in December.
- **Lowest investment** is seen in the month of May.

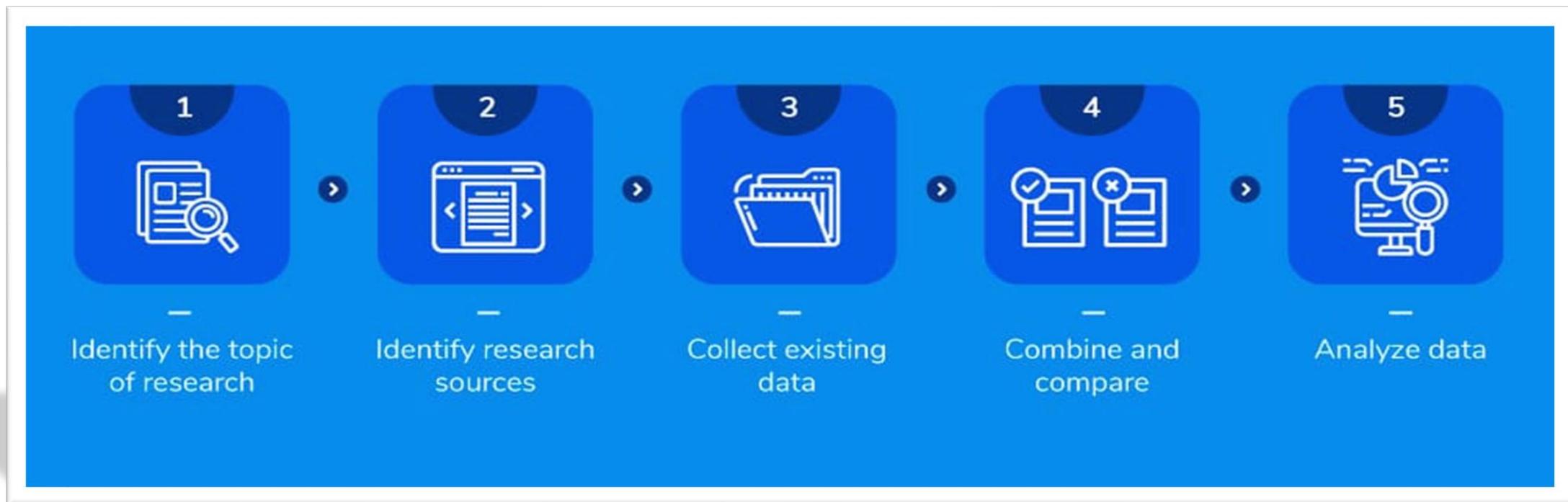
Real Estate, Industrial Parks & IT Buildings:- February, March & August.

Solar & other Renewable Energy :- December, November

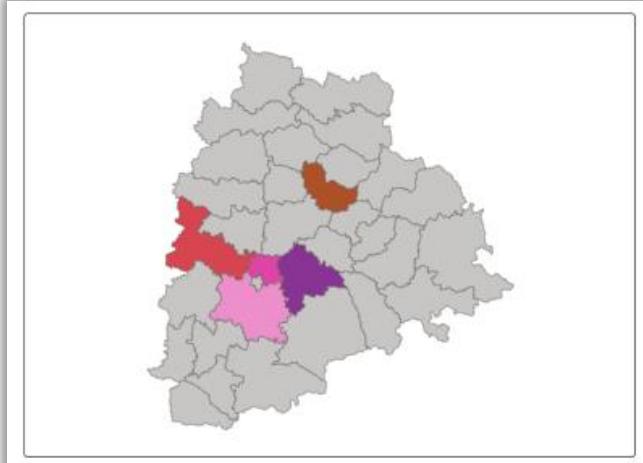
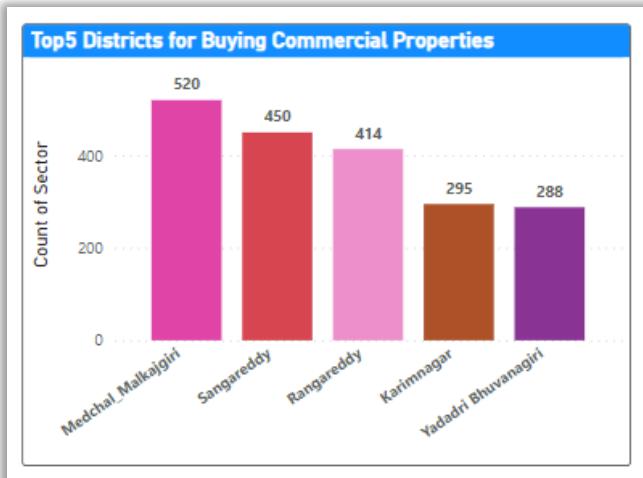
Pharmaceutical & Chemicals :- July, June, September

Plastic & Rubber :- January

SECONDARY RESEARCH



1. What are the top 5 districts to buy commercial properties in Telangana? Justify your answer.



Top 5 Districts to buy commercial properties in Telangana :-

1. Medchal Malkangiri
2. Sangareddy
3. Rangareddy
4. Karimnagar
5. Yadadri Bhuvanagiri

Following Factors can be justify my answer:-

- a) Well-developed infrastructure, including roads, utilities, and connectivity
- b) Rapid urbanization
- c) Proximity to Major Cities and Transportation Hubs
- d) Government policies and incentives to promote business and industrial growth.

2. What significant policies or initiatives were put into effect to enhance economic growth, investments, and employment in Telangana by the current government?

Can we quantify the impact of these policies using available data?

Telangana State Industrial Project Approval and Self Certification System (TS-iPASS):-

This System came into effect from 12 June, 2015 for speedy processing of applications for **issue of various clearances at a single point based** on the self certificate provided by the entrepreneur required for setting up of industries and also to create investor friendly environment in the State of Telangana.

Telangana State Industrial Development and Entrepreneur Advancement (T-IDEA):-

The T-IDEA scheme provides various incentives to micro, small, and medium enterprises (**MSME**), **large enterprises**, **Mega Projects and to the women entrepreneurs**. Mega Projects with an investment of over **Rs.200 crores** in plant and machinery or employment **above 1000 persons** will receive tailor made incentives in addition to standard large category industry incentives. Broadly, The Telangana State Government has considered providing incentives to entrepreneurs in the following areas under its T-IDEA incentive scheme.

Telangana State Programme for Rapid Incubation of Dalit Entrepreneurs (T-PRIDE):-

The Telangana State Programme for Rapid Incubation of **Dalit Entrepreneurs** (T-PRIDE) scheme is aimed at developing entrepreneurship among Scheduled Castes and Scheduled Tribes by extending the incentives.

Telangana State Innovation Cell (TSIC):-

Telangana State Innovation Cell (TSIC) was set up in 2017 under the State Innovation Policy with a vision to build and nurture the culture of Innovation in the State of Telangana. TSIC acts as the **first response of the State Government for identified innovators, start-ups, entrepreneurs**, and innovation catalysts to foster an inclusive innovation ecosystem with a state-as-a-whole approach.

3. Provide top 5 Insights & 5 recommendations to Telangana government for sustained growth in the next 5 years based on your analysis.

Insights:-

- 1. Progress and Potential:** Telangana has made significant strides in the last five years but still has untapped potential for further development.
- 2. Investment Gap:** There is a noticeable lack of investment in both Research & Development (R&D) and critical infrastructure projects.
- 3. Sectoral Opportunities:** Telangana is well positioned to leverage increasing demand in sectors like IT, manufacturing, and healthcare services.
- 4. Agricultural Focus:** The state should prioritize efforts to enhance the agricultural sector's productivity and tackle poverty.
- 5. Balanced Regional Development:** While Hyderabad is vital, the government should also prioritize the growth of tier 2 and tier 3 cities for a more balanced and inclusive development strategy.

Recommendations:-

- 1. Digitalization for Property registration:** It pave the way to more efficient, transparent and secure property registration process.
- 2. Subsidiaries for EV:** This can help to achieve net-zero greenhouse gas emissions.
- 3. Sustainable Urban Planning:** It promotes interconnected green space, multi-modal transportation system and mixed-use development. Diverse public and private partnerships should be used to create sustainable livable communities.
- 4. Data-driven Decision Making:** With the help of data, the Government can make better-informed decisions. They can use data to make decisions about policy, resource allocation, and service delivery.
- 5. Investment in Telemedicine and Healthcare:** Expand telemedicine infrastructure to provide remote healthcare services to underserved areas. This approach can improve healthcare access, particularly in rural regions, and reduce the burden on urban healthcare facilities. Encourage public-private partnerships.

THANKING OUR VALUED STAKEHOLDERS



Kalvakuntla Taraka Rama Rao / KTR

Minister for IT, Industries and
Municipal Administration.



Dhaval Patel

Founder, Codebasics.



Hemanand Vadivel

Co-Founder, Codebasics.



Jayesh Ranjan

Secretary, Information Technology
(IT), Government of Telangana.



Dileep Konatham

Director at Government of Telangana



Venu Panjarla

Open Data Telangana

**THANKS FOR
WATCHING
MY PRESENTATION.**