

Telangana



Telangana, India's 29th and the youngest state got separated from Andhra Pradesh in 2014. Telangana is one of the leading Indian states with growth in every sector from Agriculture to administration, Health to wealth, creating government jobs to IT jobs, and developing infrastructure to one of the largest economic contributors to the Indian Economy Telangana has come a long way. time after separation in 2014



Telangana region name is derived from Trilanga Desam which means the Land Of Three. Trilinga Desam geographically refers to the presence of three ancient Shiva Temples at Kaleshwaram, Srisailam, and Draksharamam.



The 2nd Largest IT Imports in India is from Hyderabad city of Telangana. TS state generated 1.83 Lakh crores worth of IT exports in between 2022-23. Hyderabad is the fastest-growing IT Hub in India competing with Bangalore in the first place.

Telangana Growth Analysis

Total Revenue

\$516bn

Total Stamp

8M

Total Employee

675K

Total Investment (CR)

\$99.13K

Total Vehicle

11M

Exploring 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 correlations among these departments and report the overall growth of the state through insights and relevant visuals such as shape maps

Yearly Revenue

\$54.73bn!

Prev Year: \$59.27bn
(-7.67%)

Yearly Investment (In CR)

\$6,959!

Prev Year: \$7,633.00
(-8.83%)

Yearly Vehicle

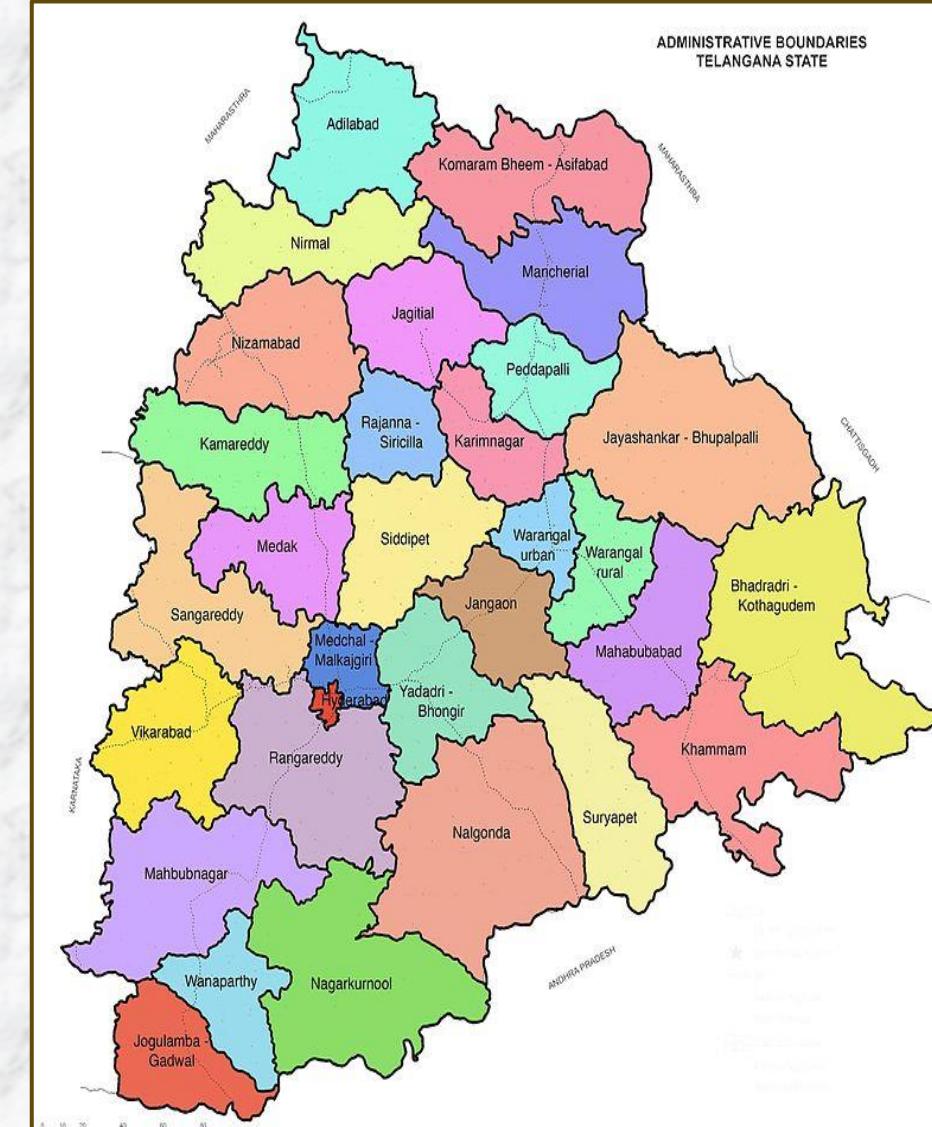
572.17K!

Prev Year: 652.36K
(-12.29%)

Yearly Employee

30.51K

Prev Year: 25.98K
(+17.44%)



E-Stamp Vs Document Registration

Document registration and e-stamp registration refer to two different processes related to legal documents, particularly in the context of property transactions and contracts. Here's what each term typically means:

1. Document Registration:

- Document registration is the process of officially recording a document with a government authority, typically a land registry or a government office responsible for maintaining records of legal documents.
- This process is commonly associated with real estate transactions, such as property sales, purchases, leases, or mortgages.
- When a property transaction takes place, the relevant documents, like deeds, agreements, and contracts, need to be registered with the appropriate government authority to establish legal ownership and protect the rights of the parties involved.
- Document registration provides a public record of the transaction, making it legally binding and enforceable.

2. Estamp Registration:

- Estamp registration, on the other hand, is a specific type of document registration related to the payment of stamp duty on certain legal documents.
- Stamp duty is a tax imposed by governments on various types of documents to make them legally valid and enforceable.
- Estamp registration involves affixing a physical or electronic stamp (known as an "estamp") on the document and paying the corresponding stamp duty.
- The estamp typically contains information about the type of document, the value of the transaction, and the applicable stamp duty rate.

Quick Overview

2019 2020 2021 2022 2023

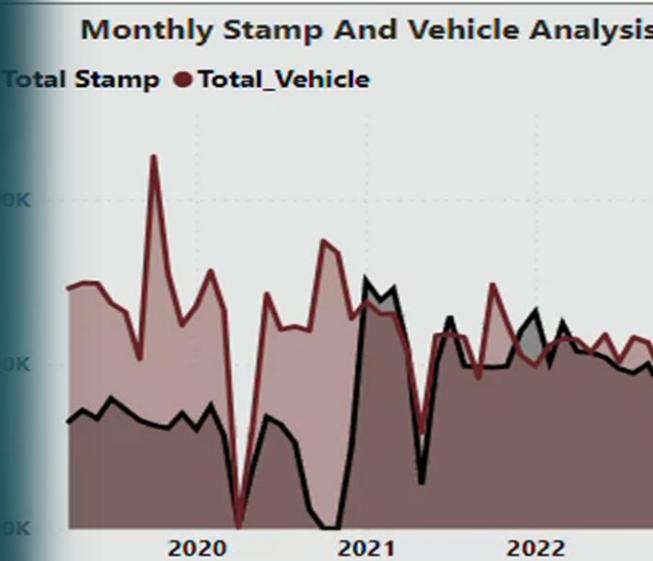
Total Revenue
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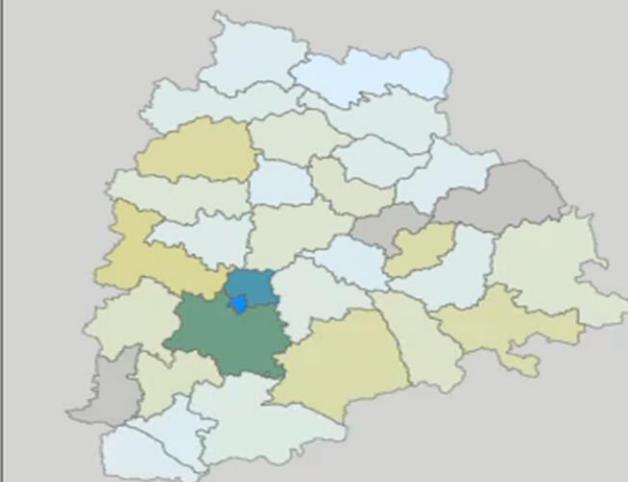
Total Employee
675K

Total In
2019 Rev (CR)
\$99.13K

Total Vehicle
11M



Vehicle In District (%) by district



District	Rev (CR)	Vehicle	Investment
Hyderabad	\$6,705	196169	\$56
Medchal_Malkajgiri	\$11,289	167898	\$10,395
Rangareddy	\$18,954	152482	\$42,706
Sangareddy	\$3,873	450567	\$12,367
Nizamabad	\$709	415593	\$219
Nalgonda	\$753	385580	\$1,901
Warangal	\$122	381643	\$510
Khammam	\$981	373820	\$786
Mahabubnagar	\$542	293266	\$4,772
Vikarabad	\$238	287367	\$304
Suryapet	\$500	278570	\$2,028
Karimnagar	\$701	264136	\$425
Bhadradri_Kothagudem	\$144	247371	\$2,029
Siddipet	\$457	246326	\$2,047
Kamareddy	\$238	230648	\$1,937
Jagital	\$207	227015	\$169

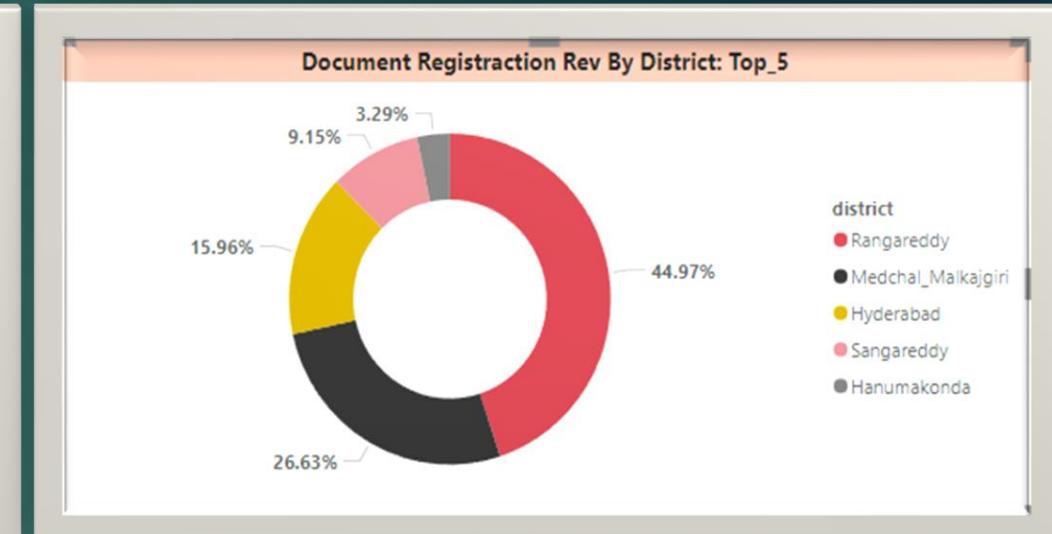
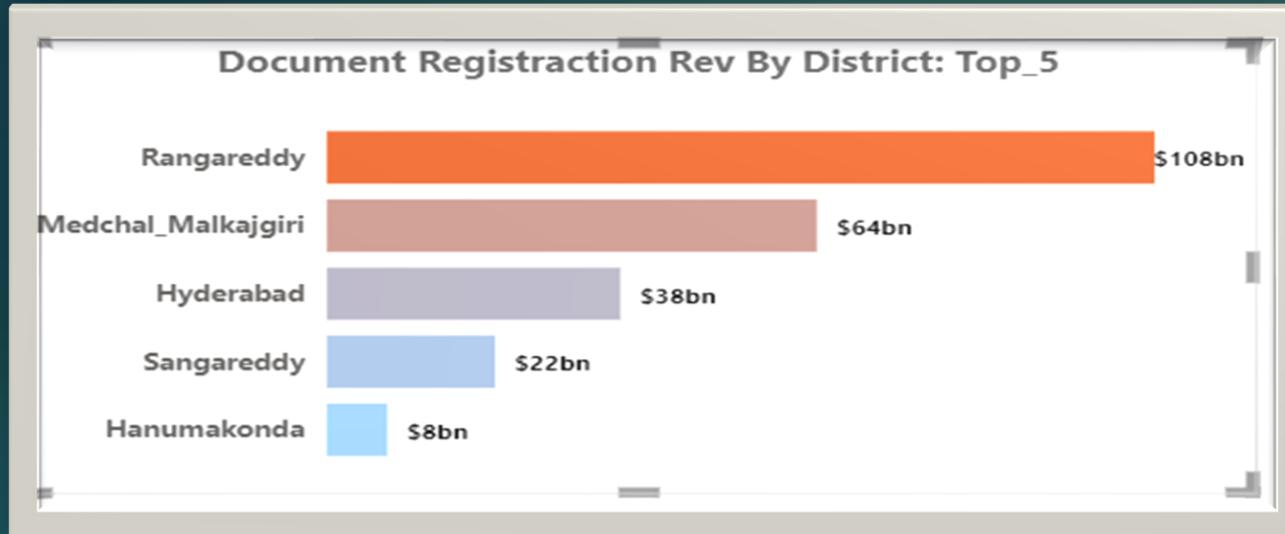
Yearly Revenue
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Yearly Employee
30.51K
Prev Year: 25.98K
(-17.84%)

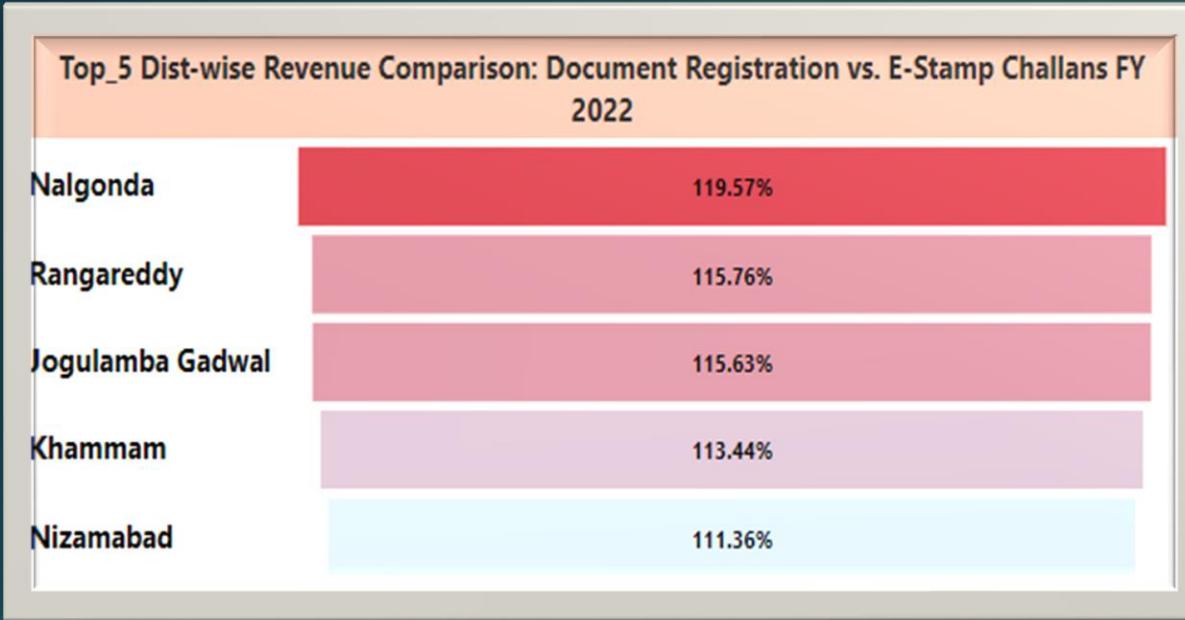
List down the top 5 districts that showed the highest document registration revenue growth between FY 2019 and 2022.



Rangareddy and Hyderabad, when combined as a district or region, account for more than 70% of the document registrations in the entire state of Telangana. This information suggests that Rangareddy and Hyderabad are significant contributors to document registration activities within the state.

Such a high share of document registration in a specific area may be influenced by factors like urbanization, commercial development, population growth, and government policies

List down the top 5 districts where e-stamps revenue contributes significantly more to the revenue than the documents in FY 2022?



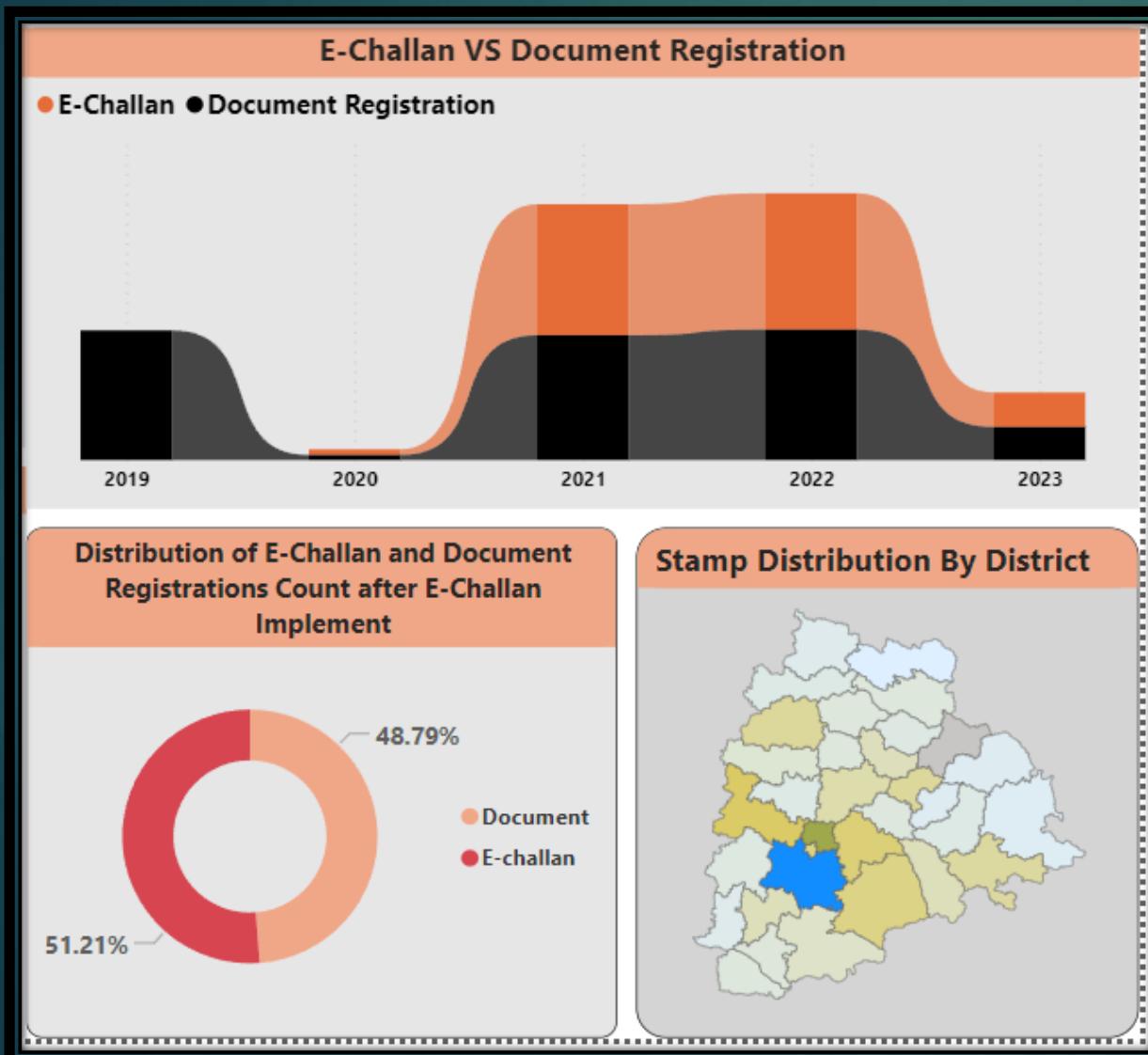
Estamp Revenue vs. Document Registration:

- In the top 5 districts you analyzed, estamp revenue contributed significantly more than document registration.
- The estamp revenue exceeded document registration revenue by more than 110% in these districts.
- This suggests that the revenue generated from stamp duty (estamp) on legal documents is a substantial source of income compared to revenue from document registration.

Monthly Revenue Trends:

- In the monthly revenue graph, you observed that revenue started showing higher figures after the year 2020.
- This indicates a positive trend in revenue generation, with an increase in revenue amounts after the year 2020.

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?



After reviewing the graph, we can clearly see that e-challan has experienced significantly more growth since its implementation compared to document registration stamps after 2020.

There are some of the advantages for implementing e-challan

o Complete Online System.

Reduction of manual process and documentation.

Fool Proof System.

Reason

The significant increase in e-challan counts can be attributed to the impact of COVID-19

Registration & Stamps Department
Government of Telangana

e-STAMPS (For Document Registration only)

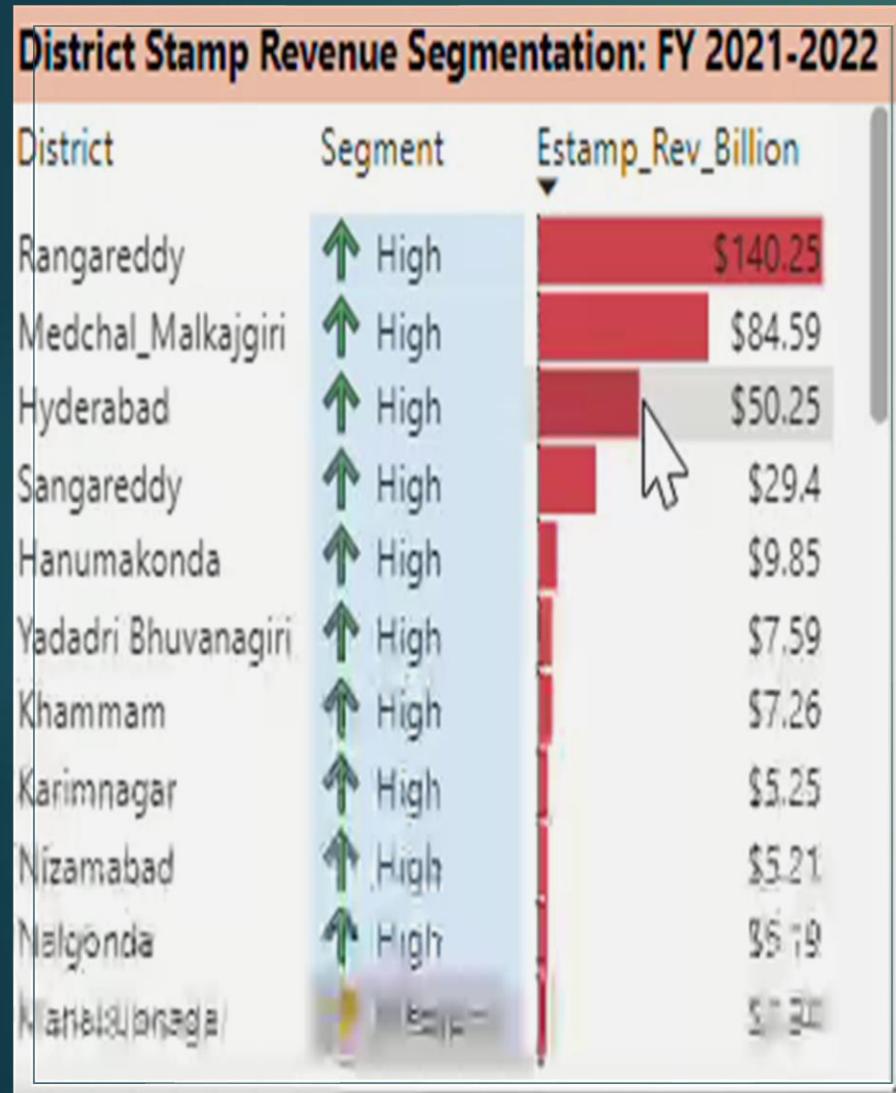
Details of the Amounts Received

Stamp Duty = _____
Transfer Duty = _____
Registration Fee = _____
User Fee = _____
TOTAL = _____
In Words Rupees _____
Amount paid for whom? Executed Claimant

Party Details
E-mail ID _____
Mobile No. _____

Document Information
Party situated in _____ Select District _____

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



1. High Segment (Top 10):

- The top 10 districts in terms of stamp revenue are categorized as "high."
 - This suggests that these districts are the highest revenue generators in terms of stamp duty for the fiscal year.

2. Medium Segment (Rank 10-20):

- The districts ranked between 10th and 20th in terms of stamp revenue are categorized as "medium."
 - These districts fall into an intermediate range in terms of stamp revenue generation.

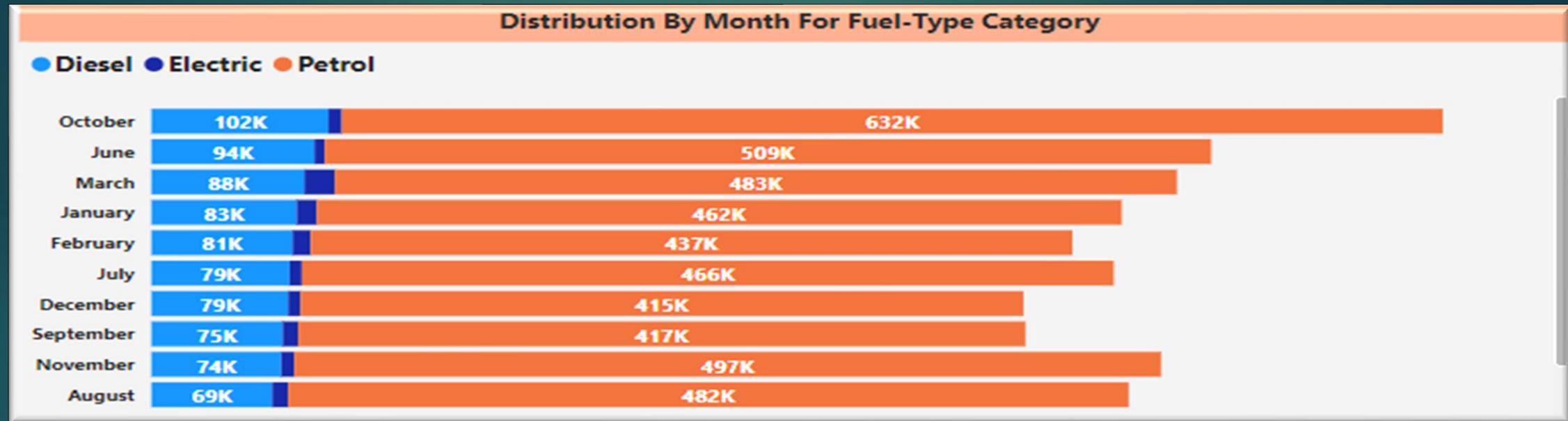
3.Low Segment (Rank 20 and below):

- Districts ranked 20th and below in terms of stamp revenue are categorized as "low."
 - These districts generate relatively lower revenue from stamp duty compared to others.

Further, your analysis highlights that Rangareddy, Medichal_Malkajgiri, and Hyderabad are standout districts in the "high" segment, each contributing more than 300 billion in stamp revenue. This indicates that these three districts are major contributors to stamp duty revenue in comparison to other districts in the state. Their high revenue figures may be influenced by factors such as economic activity, property transactions, and commercial development.

Understanding revenue distribution among districts is essential for regional economic planning, budget allocation, and policy decisions. These insights can help guide resource allocation and development strategies for both the high-revenue and lower-revenue districts.

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)

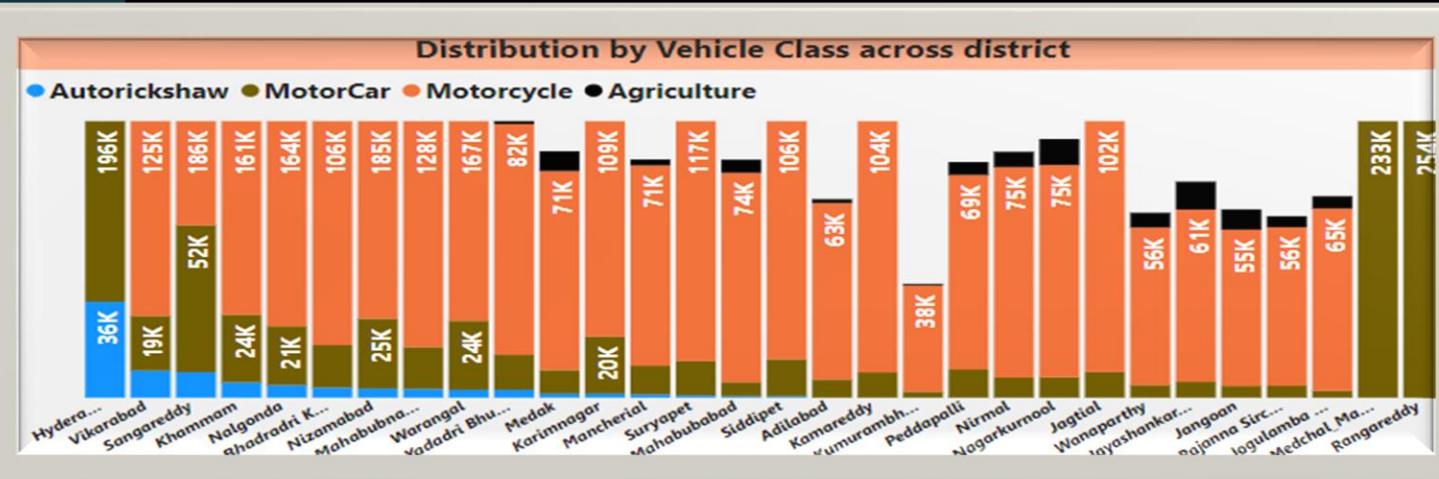


In our analysis, Petrol vehicles emerged as the leading factor in terms of sales compared to Electric and Diesel vehicles. Notably, Electric vehicle growth rate lagged significantly behind the other two.

The highest Petrol vehicle sales occurred in October, reaching 632,000 units, driven by festive seasons like Diwali and Dussehra, where vehicle purchases tend to surge.

In contrast, December saw a dip in vehicle sales, mainly due to slightly lower pricing for Petrol vehicles compared to other months. This resulted in an overall decrease in the total vehicle sales for December. Additionally, extreme weather conditions in December contributed to reduced consumer interest in vehicle purchases.

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_rank	Autorickshaw_rank	Motor_car_rank	Agriculture_rank
Hyderabad	1	1	3	30
Medchal_Malkajgiri	2	30	2	26
Rangareddy	3	29	1	25
Sangareddy	5	3	4	15
Khammam	6	4	5	3
Nalgonda	7	2	8	1
Suryapet	11	14	15	2

Motorcar and Motorcycle Domination:

- Motorcar and Motorcycle are the two vehicle classes with the highest sales growth across all districts.
- Hyderabad stands out with the highest vehicle sales growth, primarily driven by Autorickshaw and Motorcar sales.

Hyderabad's Dominance:

- In Hyderabad, Autorickshaw and Motorcar classes exhibit the highest sales growth.
- Hyderabad excels in Motorcycle, Autorickshaw, and Motorcar sales, but ranks 30th in Agriculture vehicle sales, reflecting the city's predominantly non-agricultural workforce.

Rangareddy's Dominance:

- Rangareddy leads in both Motorcar and Motorcycle sales.
- While excelling in Motorcar and Motorcycle sales, Rangareddy also ranks 25th in Agriculture vehicle sales, indicating a similar trend of non-agricultural economic activities.

Connecting Dominance Patterns:

- It's evident that districts ranking high in Motorcycle and Motorcar sales tend to rank lower in Agriculture vehicle sales.
- This trend reflects the distribution of economic activities, with districts like Hyderabad and Rangareddy focusing more on non-agricultural sectors.

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)

Top and Bottom 3 District (Petrol Growth %)

district	petrol_growth_per
Rangareddy	8.73
Hyderabad	1.03
Medchal_Malkajgiri	-0.90
Jagtial	-40.53
Nirmal	-41.05
Warangal	-45.32

Top And Bottom 3 District (Diesel Growth %)

district	Diesel_growth_per
Karimnagar	111.44
Sangareddy	13.21
Rangareddy	12.67
Jangoan	-22.00
Mahabubabad	-24.29
Warangal	-48.03

Top And Bottom 3 District (Electric Growth %)

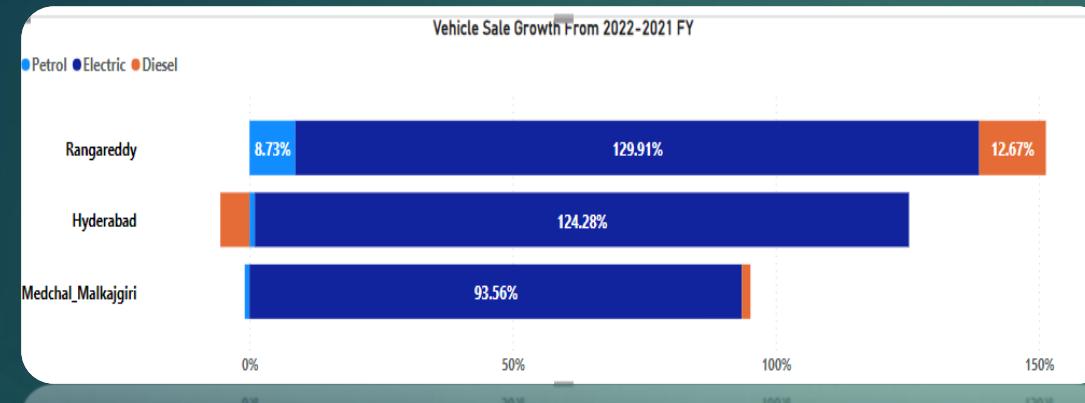
district	Electric_growth_per
Khammam	409.40
Bhadradri Kothagudem	281.58
Suryapet	247.15
Mancherial	19.19
Rajanna Sircilla	14.92
Wanaparthy	5.48

Top And Bottom 3 District (Overall Vehicle Growth %)

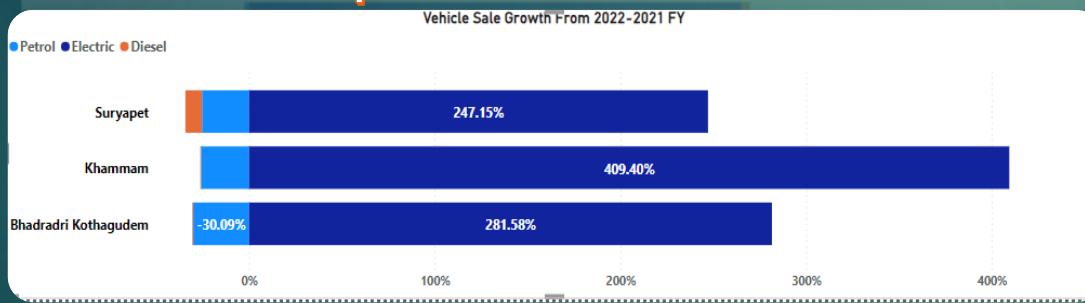
district	Total_Vehicle_growth_per
Rangareddy	12.52
Hyderabad	4.74
Karimnagar	4.42
Nirmal	-34.45
Jagtial	-37.15
Warangal	-44.69

Top And Bottom District in term of Vehicle Sale Growth FY- 2022 -2021

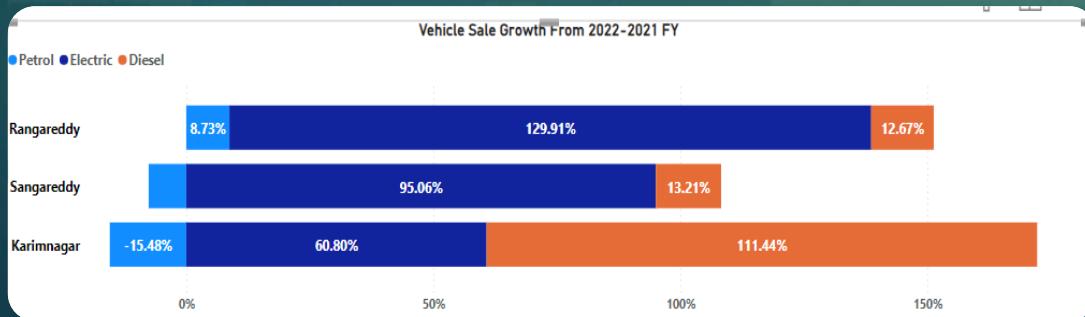
Petrol- Top 3



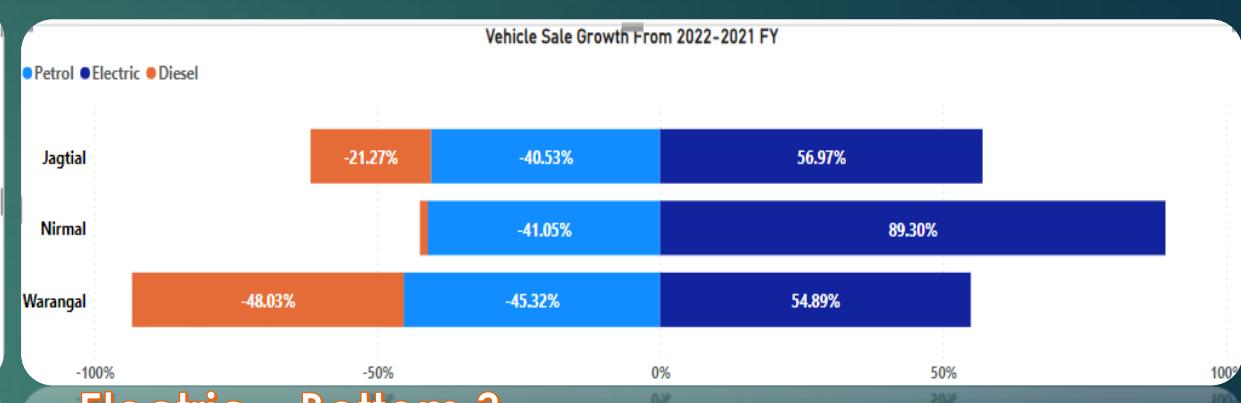
Electric – Top 3



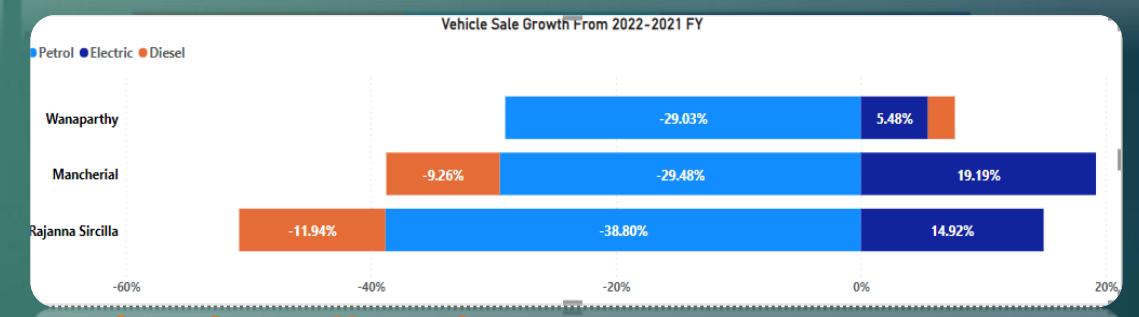
Diesel – Top 3



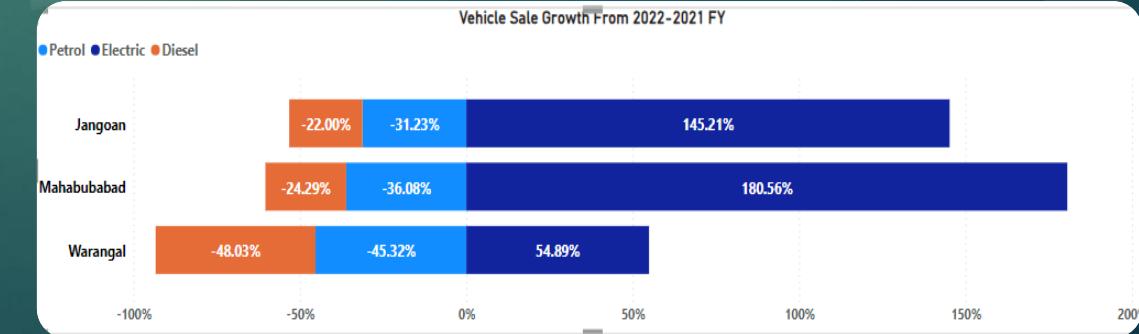
Petrol- Bottom 3



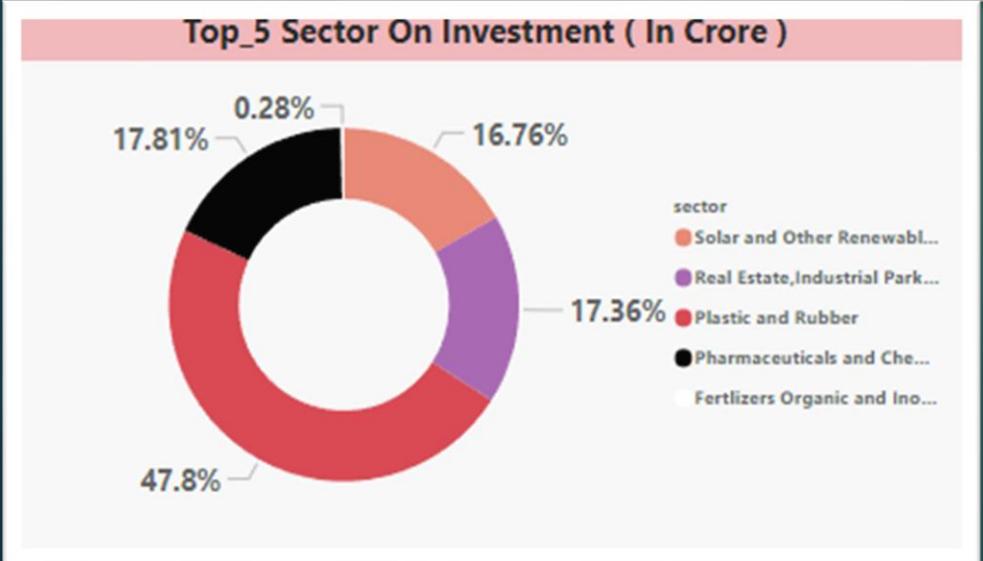
Electric – Bottom 3



Diesel – Bottom 3



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

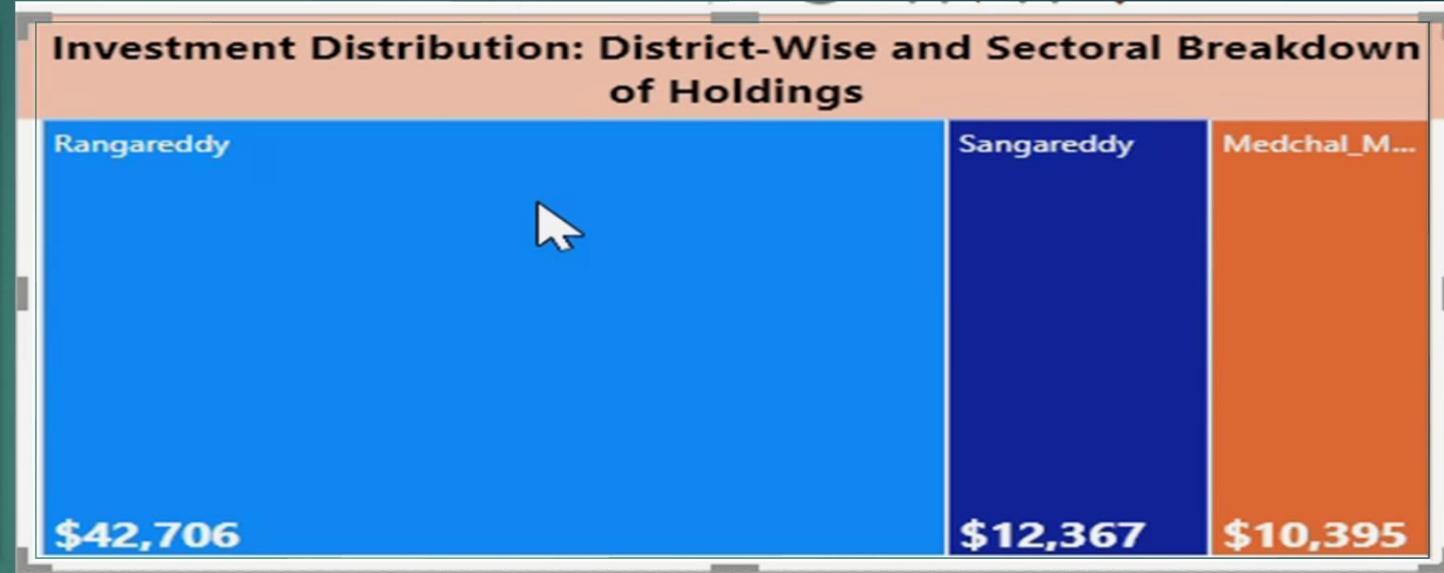
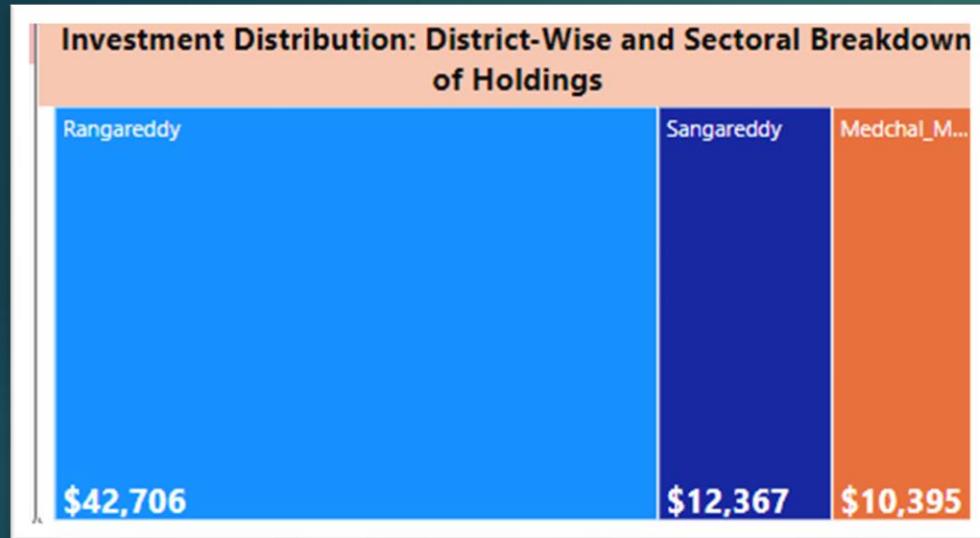


Real Estate industries , Solar and other renewable energy , Plastic and rubber and fertilizers organic and other related where the top 5 sector who witnessed the most significant investment. The reason for plastic and rubber , and pharmaceutical was rises due to the 2nd Covid wave which have came in 2021-2022 .

The state also tried to change the poor adoption of rooftop solar power. According to officials of the Greater Hyderabad Municipal Corporation (GHMC), there were hardly any rooftop solar panel consumers in Hyderabad in 2014 but now it has around 9,500 such consumers. The GHMC officials also claim that the corporation would soon be able to earn profits from the rooftop solar panels installed on its offices.

A senior official from the GHMC, while requesting anonymity, told Mongabay-India that "there are 34 GHMC buildings where rooftop solar systems have been installed with an investment of Rs. 3.4 crore (Rs. 34 million). In the next two years, we are going to recover this investment through energy-saving and after that whatever we produce through solar energy will be a profit for us."

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?



Top 3 Districts for Investments (FY 2019-2022):

- Rangareddy, Medchal_Malkajgiri, and Sangareddy emerged as the top 3 districts attracting the most significant sector investments.
- These districts showcased remarkable investment growth during this period.

Pharmaceutical and Chemical Sector's Influence:

- In all three districts, the Pharmaceutical and Chemical sector played a vital role in attracting investments.
- The increased supply of medicines due to COVID-19 contributed to the prominence of these sectors in investment.

Plastic and Rubber Industry's Contribution:

- The Plastic and Rubber industry also made a substantial contribution to the top 3 district investments.
- The surge in demand for gloves and PPE kits, primarily made from plastic and rubber, further boosted investments in these sectors.

Is there any relationship between district investments, vehicles sales and stamps revenue within the same district between FY 2021 and 2022

District Rankings Overview:

- We have categorized districts based on their respective ranks in terms of Stamp Revenue, Investments, and Vehicle Sales during FY 2021-2022.
- Bullet Point 2: This categorization allows us to analyze potential correlations among these key fields.

Positive Correlations in Most Districts:

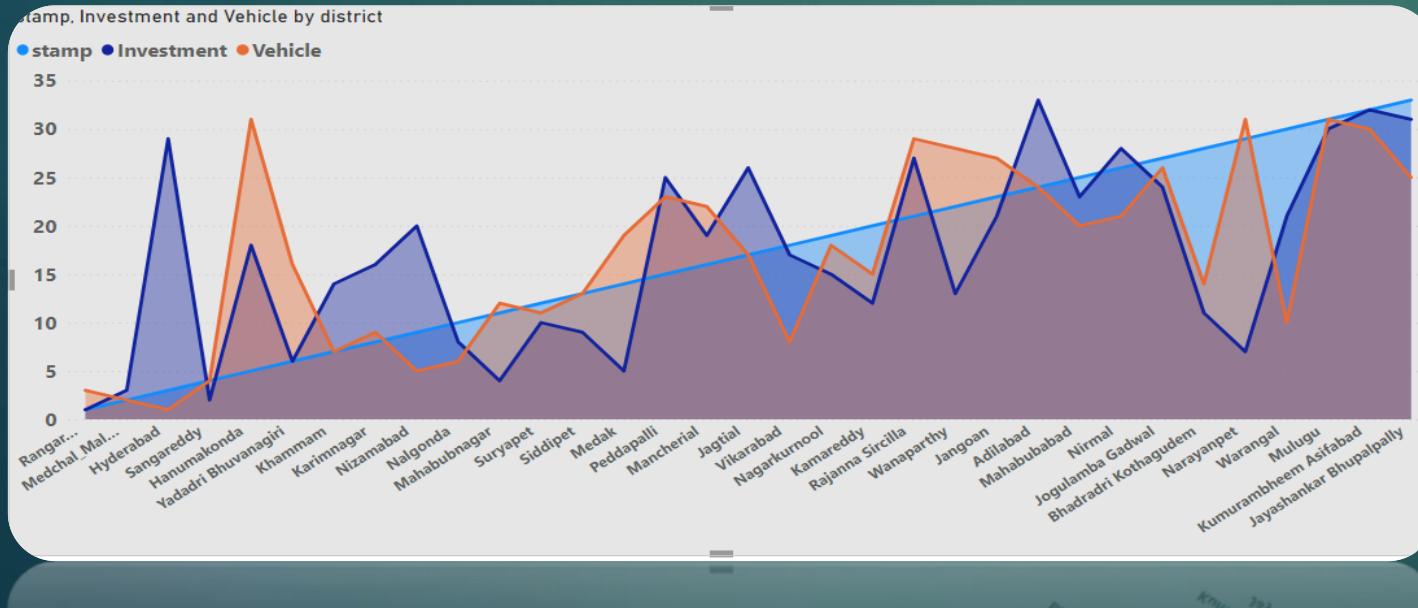
- In the majority of districts, a notable pattern emerges: if a district ranks high in Stamp Revenue, it also ranks high in Investments and Vehicle Sales.
- This suggests a positive correlation among these three fields.

Hyderabad's Unique Scenario:

- Hyderabad stands out as a unique case where Stamp Revenue and Vehicle Sales growth both rank in the top 3, indicating strong performance.
- However, its Investment rank is notably lower, at 29th out of 32 districts, indicating a significant negative correlation between investment and the other two factors.

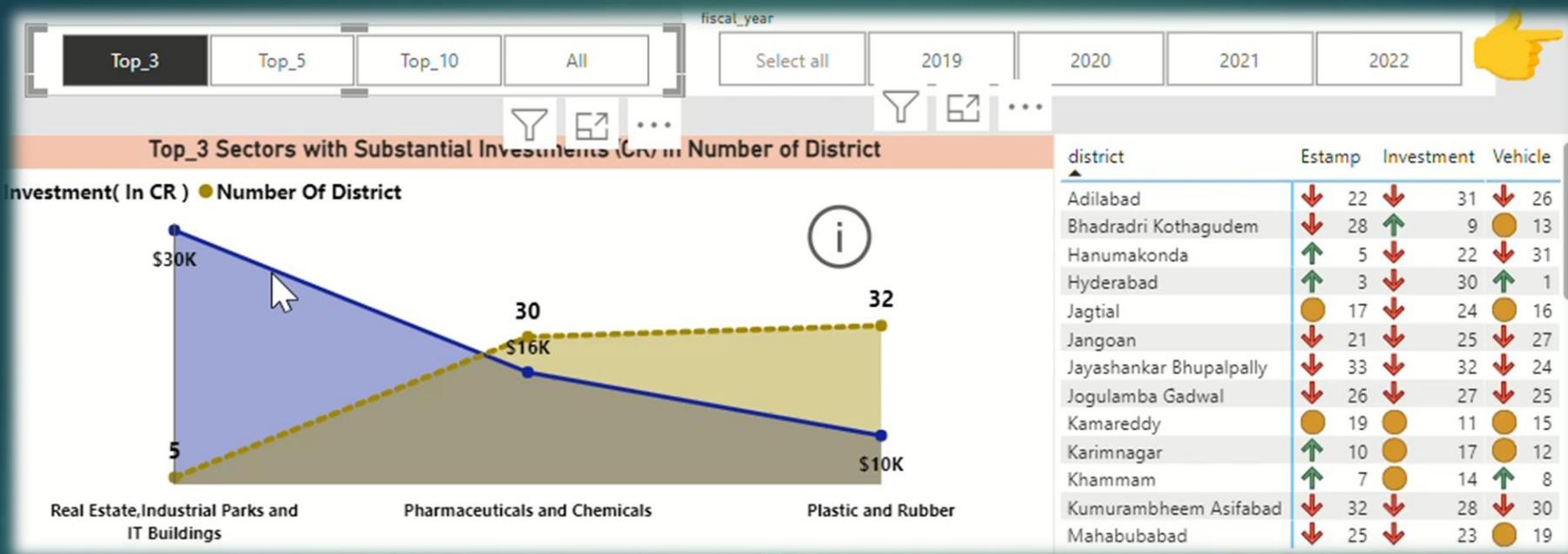
Sangareddy and Rangareddy's Consistency:

- Sangareddy and Rangareddy districts demonstrate remarkable consistency, ranking well in all three fields.
- These districts serve as examples of positive correlations between Stamp Revenue, Investments, and Vehicle Sales.



district	stamp	Investment	Vehicle
Rangareddy	↑ 1	↑ 1	↑ 3
Medchal_Malkajgiri	↑ 2	↑ 2	↑ 2
Hyderabad	↑ 3	↓ 29	↑ 1
Sangareddy	↑ 4	↑ 2	↑ 4
Hanumakonda	↑ 5	↓ 18	↓ 31
Yadadri Bhuvanagiri	↑ 6	↑ 6	↑ 16
Khammam	↑ 7	↓ 14	↑ 7
Karimnagar	↑ 8	↓ 16	↑ 9
Nizamabad	↑ 9	↓ 20	↑ 5
Nalgonda	↑ 10	↑ 8	↑ 6
Mahabubnagar	↑ 11	↑ 4	↑ 12
Suryapet	↑ 12	↑ 11	↑ 11
Siddipet	↑ 13	↑ 7	↑ 13

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



Highest Investments Due to COVID-19:

- Pharmaceutical and Chemical sectors received the highest investments, totaling \$13,719 Crore, across 28 districts from FY 2020 to 2022.
- This surge in investments can be attributed to the COVID-19 pandemic, highlighting the importance of these sectors in times of crisis.

Plastic & Rubber Sector's Remarkable Growth:

- Despite the challenges posed by COVID-19, the Plastic and Rubber sector attracted significant investments, totaling \$8.9K Crore, spanning 32 districts.
- The pandemic's impact on the increased use of single-use plastics, such as face masks and gloves, likely contributed to this sector's growth.

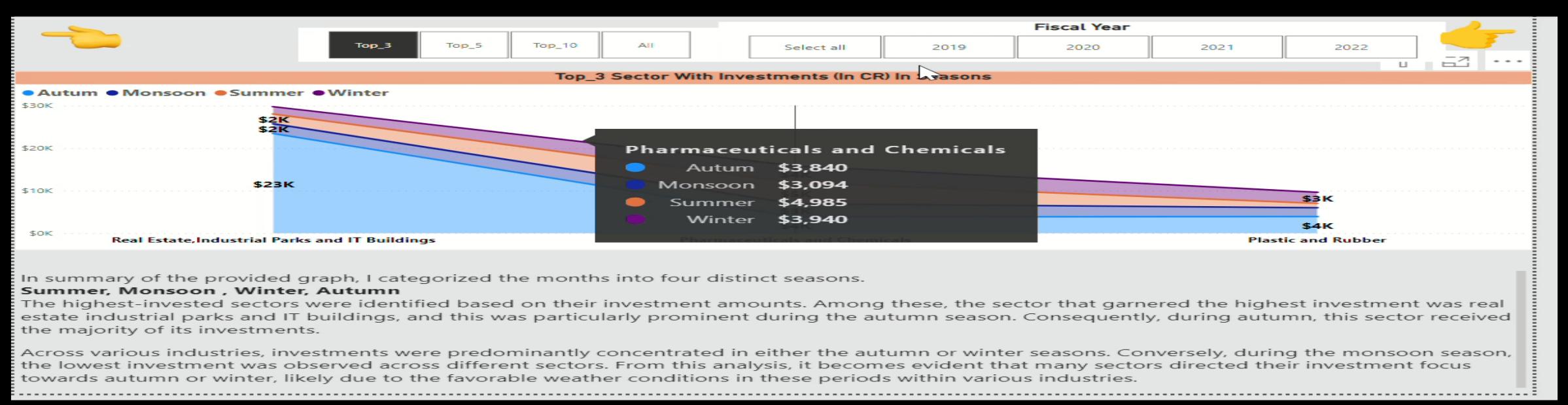
Top Sectors in FY 2021 and 2022:

- Pharmaceuticals & Chemicals and Plastic & Rubber emerged as the top two sectors in terms of investment during FY 2021 and 2022.
- These sectors garnered investments from 25 districts, demonstrating their resilience and attractiveness to investors during uncertain times.

Real Estate, Industrial Park, and IT Building Sector:

- In contrast, the Real Estate, Industrial Park, and IT Building sector ranked 3rd in terms of investment but attracted investments from only 4 districts.
- Notably, most districts prioritized investments in Pharmaceuticals & Chemicals (\$9,043 Crore) and Plastic & Rubber (\$7,915 Crore).

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



In summary of the provided graph, I categorized the months into four distinct seasons.

Summer, Monsoon, Winter, Autumn

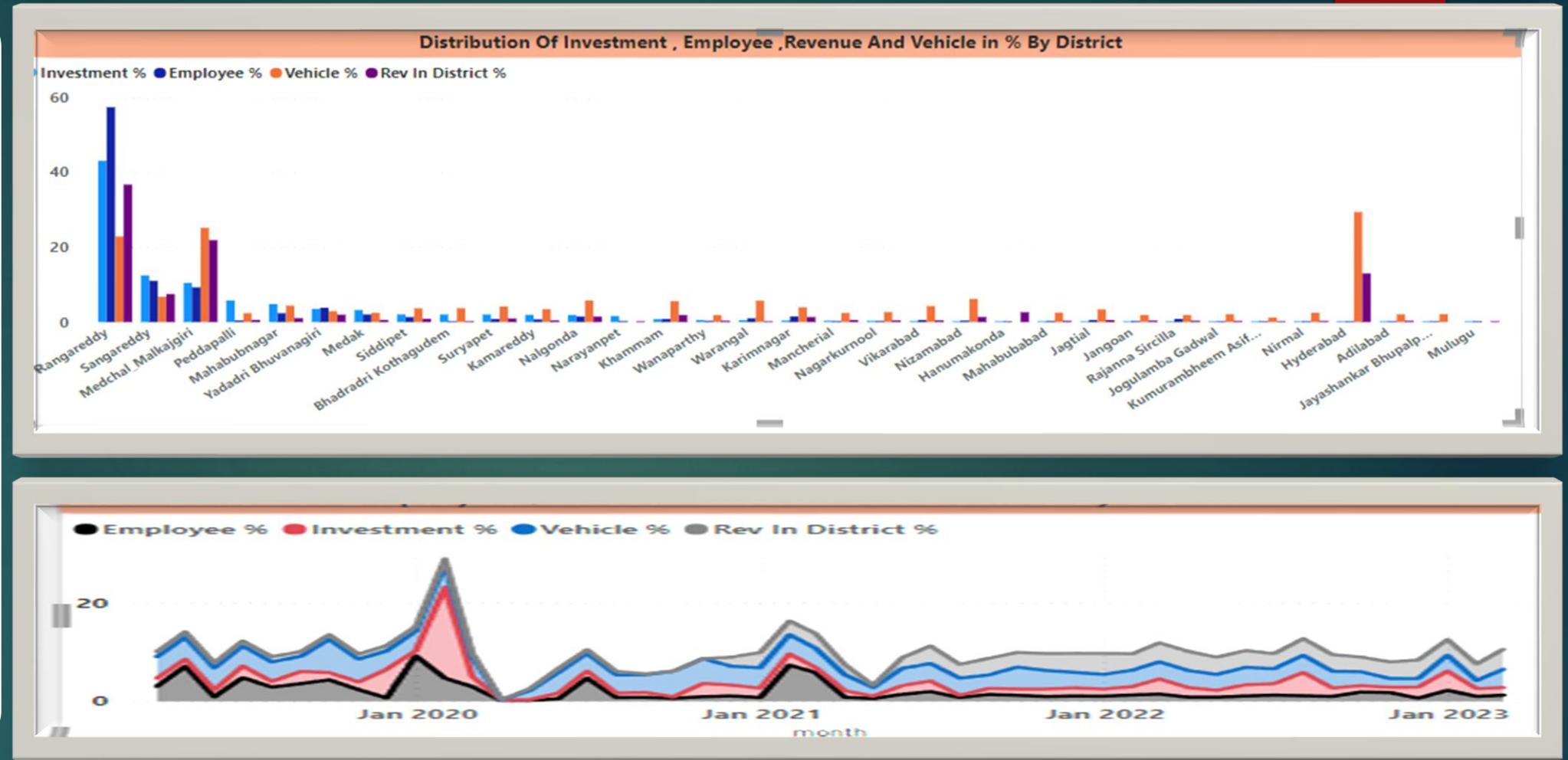
The highest-invested sectors were identified based on their investment amounts. Among these, the sector that garnered the highest investment was real estate industrial parks and IT buildings, and this was particularly prominent during the autumn season. Consequently, during autumn, this sector received the majority of its investments.

Across various industries, investments were predominantly concentrated in either the autumn or winter seasons. Conversely, during the monsoon season, the lowest investment was observed across different sectors.

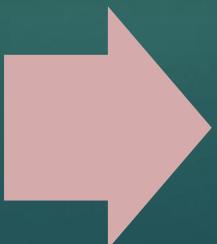
From this analysis, it becomes evident that many sectors directed their investment focus towards autumn or winter, likely due to the favorable weather conditions in these periods within various industries.

Top 5 districts to buy commercial properties in Telangana

To Find out the top 5 Commercial Properties In telangana we have categorized our graph on the basis of Investment , Employment, Vehicle and Stamp Rev % In each district.



Top 5 commercial property investments emerge in Rangareddy, Sangareddy, Medchal_Malkajgiri, Peddapalli, and Hyderabad districts, evident from both % Distribution Of Investment , Employee Engagement, Vehicle and stamp revenue.



It suggests that these top 5 districts are emerging as favorable destinations for commercial property investments.

Insights

- ▶ **Revolutionizing Registration: Making Echallan the Stamp of Choice**
- ▶ When the government introduced Echallan for registrations, something unexpected happened—the registration count surged past traditional document registrations. This intriguing shift unveils an opportunity for the government to lead the way into the future. By cultivating awareness and advocating for stamp registration through Echallan, not only can we bid farewell to cumbersome paperwork and save time, but also reap multifaceted benefits for all.

- ▶ **Fueling Change: Sparking the Electric Vehicle Revolution**
- ▶ Among the gears that drive our nation's vehicles, petrol and diesel reign supreme. Yet, there's a chance to electrify our roads with change. Encouraging the adoption of electric vehicles could be the game changer, and here's how: Government incentives that illuminate the path to affordability. Imagine a world where subsidies make electric vehicles accessible to all, curbing emissions and steering us towards a greener tomorrow.

- ▶ **Wheels of Transformation: Paving the Path for Public Transport**
- ▶ Across our varied districts, private vehicles are kings. Yet, imagine a harmonious rhythm where public transport takes center stage. The government can orchestrate this transformation. By nurturing the use of public transport, we can unlock a harmonious tune: reduced infrastructure expenses, cleaner air, and happier commuters. And who knows, a future where public transport is as common as a breeze.

- ▶ Picture this: bustling city streets with trams, buses, and shared autorickshaws effortlessly ferrying citizens to their destinations. Take a leaf out of Luxembourg's book, where free public transport has become a way of life, contributing to cleaner air and happier communities. Our government can follow suit by offering discounted fares on weekends or specific weekdays, enticing citizens to hop on the green transit wagon.



► **Pandemic's Investment Palette:**

- Pharmaceuticals Surge, Plastics Follow
- In the aftermath of the pandemic, investment landscapes transformed. Pharmaceutical and Chemical sectors painted a \$13,719 Crore canvas across 28 districts. Simultaneously, Plastic and Rubber investments reached \$8.9K Crore across 32 districts. As we navigate the aftermath, mindful steps are needed to balance growth with environmental responsibility, especially concerning single-use plastics.



► **Seasons of Investment:** Real Estate and IT Bask in Autumn's Glow

- Investments, like the changing seasons, exhibit patterns. Autumn becomes the canvas where real estate industrial parks and IT buildings flourish. With winter following suit, a trend is clear—investors align their ventures with favorable weather conditions. This seasonal symphony underscores how nature's rhythms entwine with economic decisions.



Equal Opportunities, Wider Horizons: Expanding Work Opportunities

- The trinity of Rangareddy, Sangareddy, and Medchal_Malkajgiri districts are magnets for employment, leaving other districts yearning. The solution lies in a visionary approach: attracting investors and entrepreneurs to new locales. With policies that extend an open invitation, we can transform the map of opportunities, creating prosperity beyond the familiar horizons.



Recommendation

Promote Echallan-based Stamp Registration:

- Encourage and incentivize the use of Echallan for stamp registration processes.
- Create awareness campaigns to educate the public and businesses about the benefits of Echallan-based registrations,
- such as reduced paperwork and time-saving.
- Simplify and streamline the stamp registration process through Echallan to make it the preferred choice for document registration.



Support the Electric Vehicle (EV) Revolution:

- Implement government incentives and subsidies to make electric vehicles more affordable and accessible to the general population.
- Develop a comprehensive EV infrastructure plan, including charging stations and incentives for manufacturers to produce EVs locally.
- Promote the adoption of electric vehicles as a means to reduce emissions and transition towards a greener and sustainable transportation system.



Boost Revenue in Low-Revenue Districts:

- Formulate innovative policies and initiatives specifically targeted at districts with lower stamp revenues.
- Identify and support industries or sectors that have growth potential in these districts to increase revenue streams.
- Encourage local entrepreneurship and investment in underdog districts to promote economic growth and revenue generation.

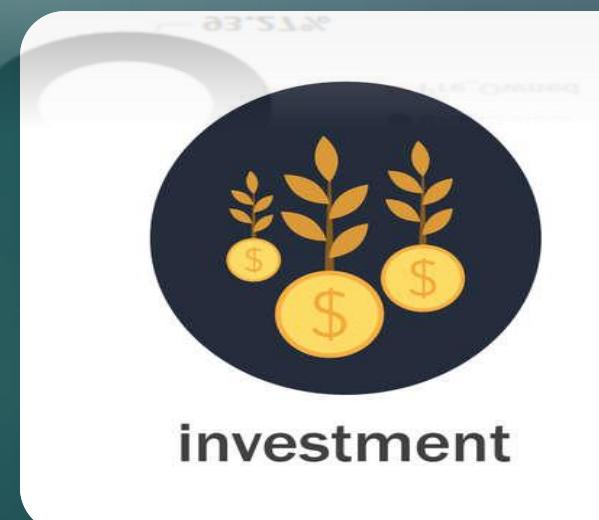
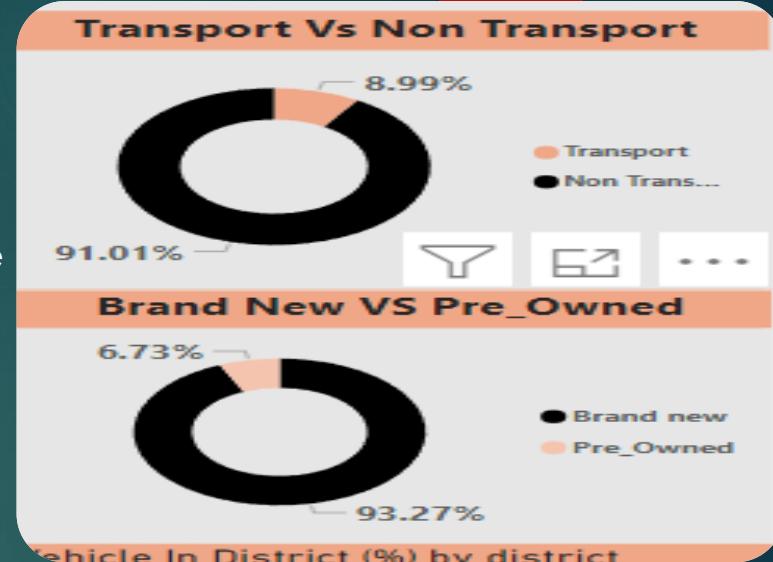


► **Invest In Public Transport**

- ▶ Prioritize and invest in public transport infrastructure, making it a convenient and attractive option for commuters.
- ▶ Offer incentives such as discounted fares on weekends or specific weekdays to encourage the use of public transport.
- ▶ Consider implementing free or highly subsidized public transport options to reduce congestion, improve air quality, and enhance the quality of life for citizens.

► **Diversify Investment Portfolios Responsibly:**

- ▶ While encouraging investments in pharmaceuticals, chemicals, real estate, and IT, ensure that sustainable and environmentally responsible practices are followed.
- ▶ Implement regulations and incentives that promote the responsible use of plastics and sustainable manufacturing processes.
- ▶ Encourage investors to consider environmental impact and sustainability factors when making investment decisions.



These recommendations aim to leverage the opportunities highlighted in the analysis to promote economic growth, environmental responsibility, and equal development across districts. By strategically addressing these areas, the Telangana government can work toward sustained and balanced growth over the next five years.

Thank
You