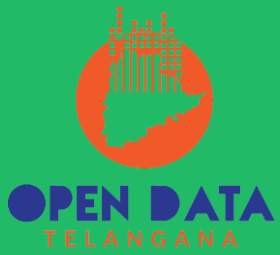




Analyse Growth and Present Insights to the
Telangana Government



Codebasics Resume Project Challenge 7



Vishal Gupta

Discovering Telangana: A Glimpse into India's Newest State



Key Stats

Formation Date:	June 2, 2014
Geography :	112,077 Sqkm
Population:	39 millions
Official Language:	Telugu





OPEN DATA
TELANGANA

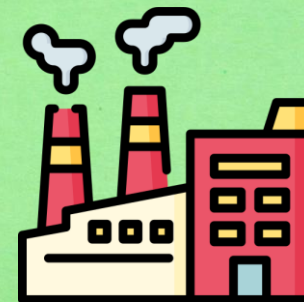
Stamp Registration



Transportation



TS-ipass



Document Registration



e-Stamp Challan





❑ **How does the revenue generated from document registration vary across districts in Telangana?**

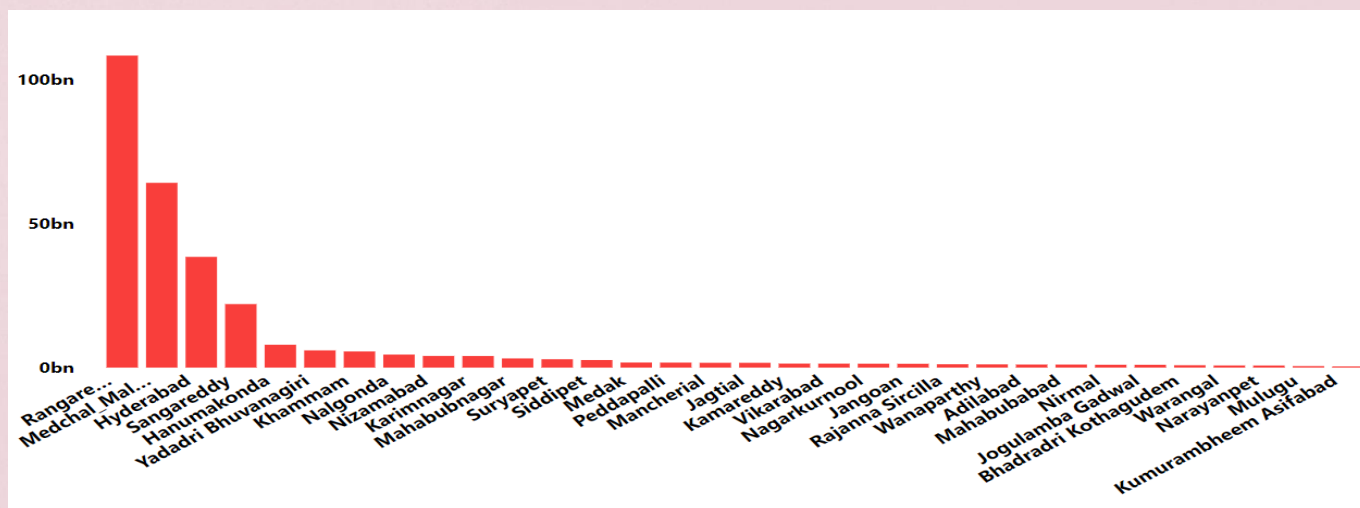
Insights



The revenue is highest in Rangareddy, followed by Medchal Malkajgiri, Hyderabad and Sangareddy. The lowest revenue is generated in Mulugu and Asifabad.

The variation in revenue can be attributed to a number of factors, including:

- Population
- Level of Economic Activity
- Availability of land records
- Efficiency of the land registration process





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

Insights



- The northern districts of Telangana are growing faster economically, as evidenced by the high growth in document registration revenue.
- The growth in Mancherial and Medchal Malkajgiri is being driven by Hyderabad's economic activity.

District	Growth %
Mulugu	170.94
Adilabad	122.84
Karimnagar	92.75
Mancherial	91.75
Medchal_Malkajgiri	91.68

The possible reasons for the high growth in document registration revenue in these districts are:

- Rising real state Prices
- Industrial Growth
- Infrastructural improvement



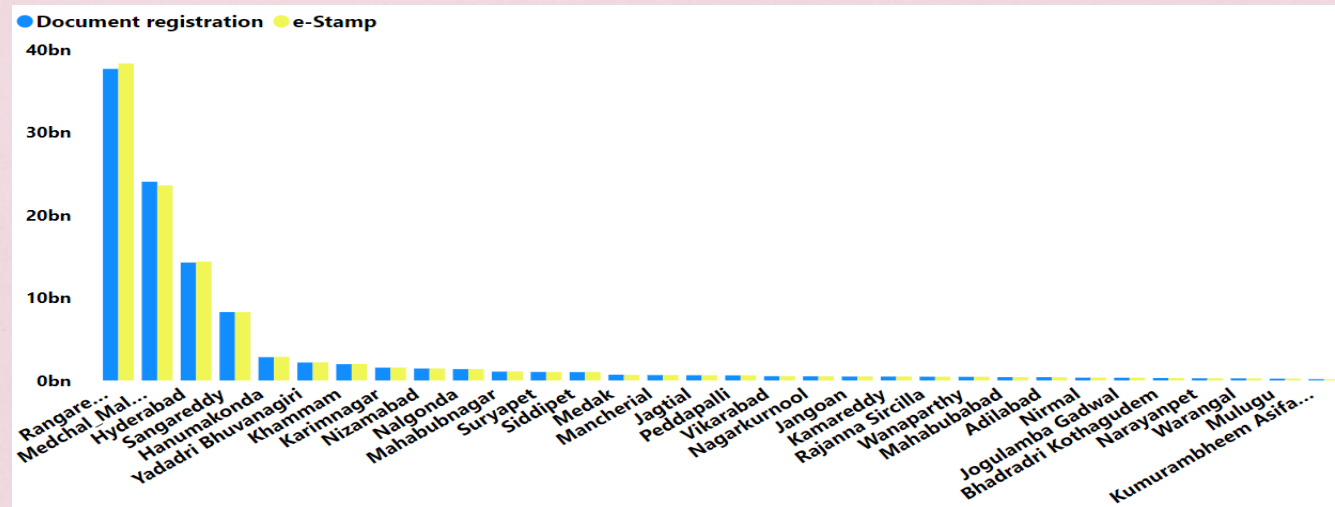
❑ **How does the revenue generated from document registration compare to the revenue generated from e-stamp challans across districts?**

Insights



Here are some possible reasons for the variation in the proportion of revenue generated from e-stamp challans across districts:

- The level of urbanization
- The level of awareness about e-stamp challans
- The efficiency of the e-stamp challan process



Some specific suggestions for the government:

- Reduce the cost of e-stamp challans.
- Make it easier to purchase e-stamp challans online.
- Provide more information about the benefits of using e-stamp challans.



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

Insights



- The districts of Jangon, Kamreddy, Mancherial, Nirmal, and Rangareddy are all located in the northern part of Telangana.
- This suggests that the use of e-stamps is more prevalent in these districts than in other parts of the state.

District	Significance(e-stamp) %
Jangoan	2.54
Nirmal	2.10
Mancherial	1.98
Rangareddy	1.73
Kamareddy	1.60

Some possible reasons for the higher use of e-stamps in these districts

- These districts are more urbanized, and people in urban areas are more likely to use e-stamps.
- These districts are more developed, and the government may have made it easier to use e-stamps in these districts.



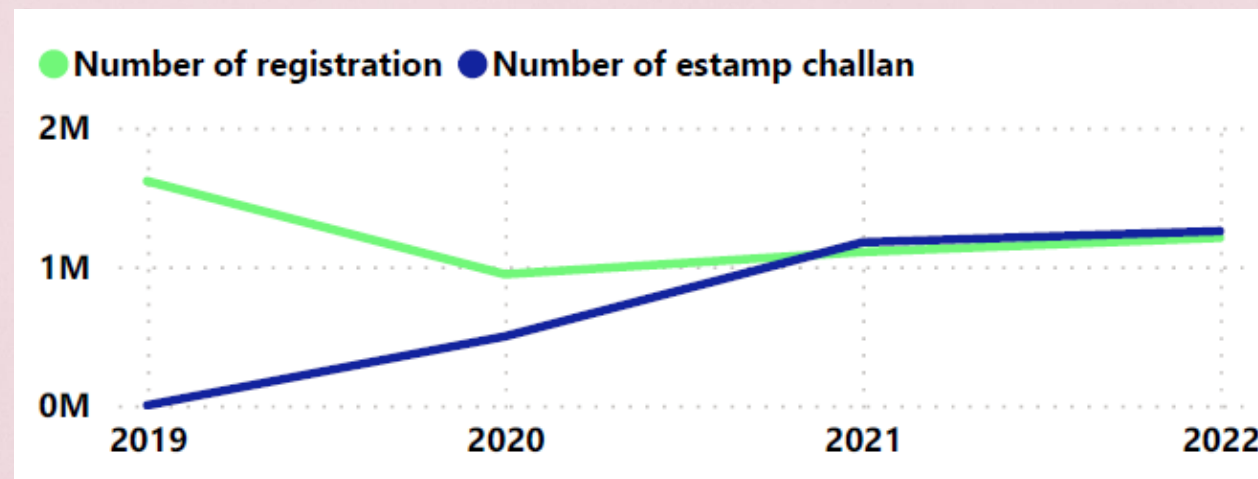
☐ Is there any alteration of e-Stamp challan count and document registration count pattern since the implementation of e-Stamp challan? If so, what suggestions would you propose to the government?

Insights



Yes, there is an alteration . Here are a few possible reasons for this:

- E-Stamp challans are more convenient and efficient than traditional stamp paper.
- E-Stamp challans are more secure, tamper-proof and easier to track and trace.



Here are some specific suggestions for the government:

- Reduce the cost of e-Stamp challans.
- Provide more information about the benefits of using e-Stamp challans.
- Conduct awareness campaigns about e-Stamp challans.



☐ **Are there any months or seasons that consistently show higher or lower sales rate, and if yes, what could be the driving factors?**

Insights



Yes, there are some months and seasons that consistently show higher or lower vehicle sales in Telangana.

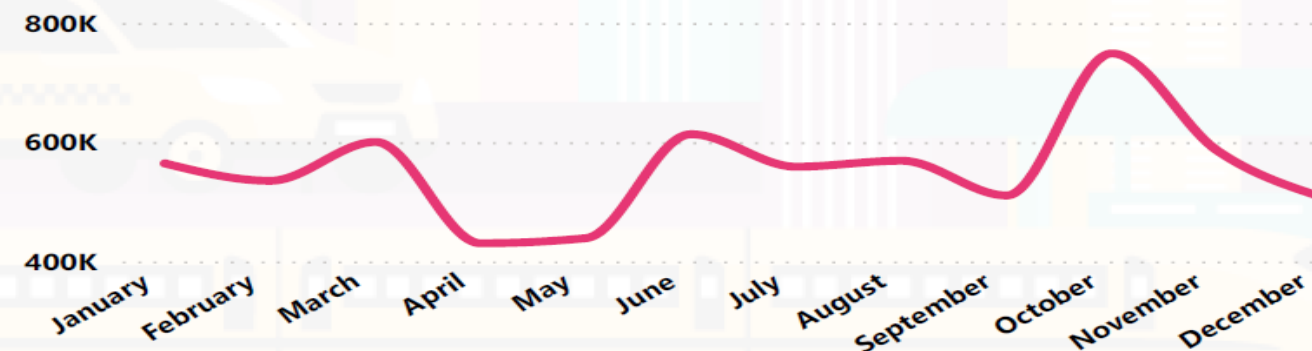
Higher sales:

- **October- November :** This is the beginning of the festive season, and people tend to buy new vehicles as a gift for themselves or their loved ones.
- **March:** This is the end of the financial year, and people tend to buy new vehicles to take advantage of tax benefits.

Lower Sales:

- **July and August:** These are the monsoon months, and people tend to avoid buying new vehicles during this time due to the risk of flooding and other weather-related problems.
- **April –June:** May and June: These are the hottest months of the year, and people tend to avoid buying new vehicles during this time. Covid lockdown had also impacted the sales in these months

Vehicle sales





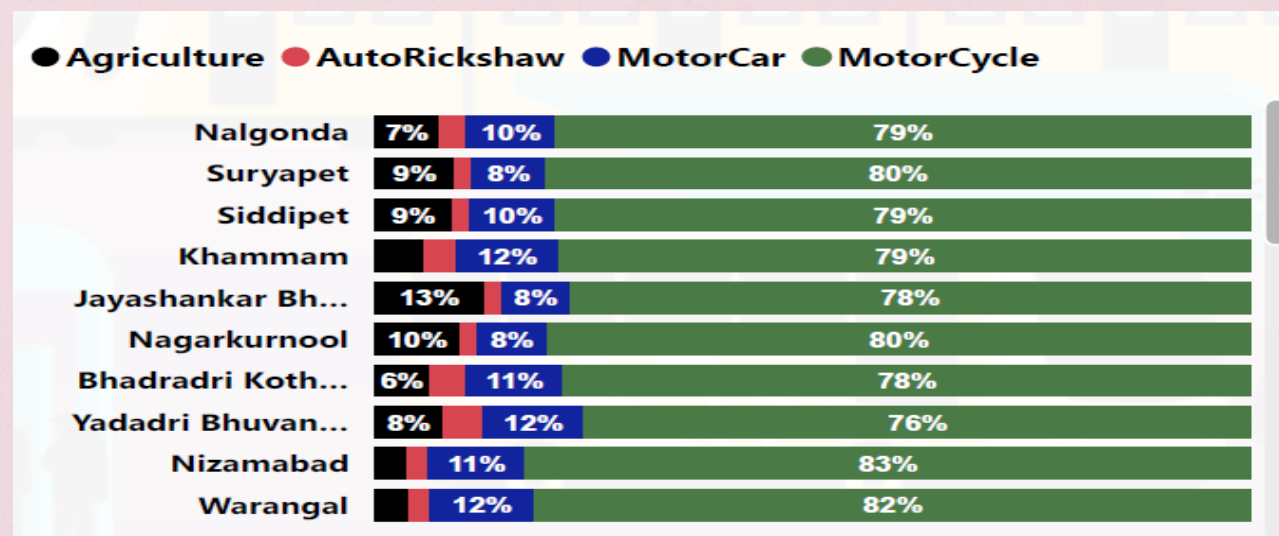
- ❑ **How does the distribution of vehicles vary by vehicle class (MotorCycle, MotorCar, AutoRickshaw, Agriculture) across different districts? Are there any districts with a predominant preference for a specific vehicle class?**

Insights



There are a few districts with a predominant preference for a specific vehicle class:

- The district of jayashankar bhupalpalli and nagarkarnool has a preference for agricultural vehicles, with agricultural vehicles accounting more than 10% of all vehicles in this district.
- The district of asifabad, kamareddy and alidabad have a preference for motorcycles, with motorcycles accounting for more than 87% of all vehicles in these districts.



The factors that contribute to the variation in vehicle distribution by vehicle class across districts:

Economic activity: Districts with a higher level of economic activity tend to have a higher proportion of motorcars, as people in these districts are more likely to be able to afford to purchase and operate motorcars.

Geography: Districts with a more rural geography tend to have a higher proportion of motorcycles and agricultural vehicles, as these vehicles are more suited to rural conditions.



- ❑ **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?**

Insights



The high vehicle sales growth in these districts can be attributed to a number of factors.

- Economic growth
- Population growth
- Improved infrastructure

District	2021	2022	Growth	Growth%
Rangareddy	216631	246600	29969	13.83
Karimnagar	34913	37219	2306	6.60
Hyderabad	266602	282124	15522	5.82

The government of Telangana can take these action to promote vehicle sales in these low growth districts:

- Improving public transportation
- Promoting economic growth
- Educating the public about the benefits of owning a vehicle

District	2021	2022	Growth	Growth%
Nirmal	22820	14987	-7833	-34.33
Jagtial	28303	17880	-10423	-36.83
Warangal	42436	24595	-17841	-42.04



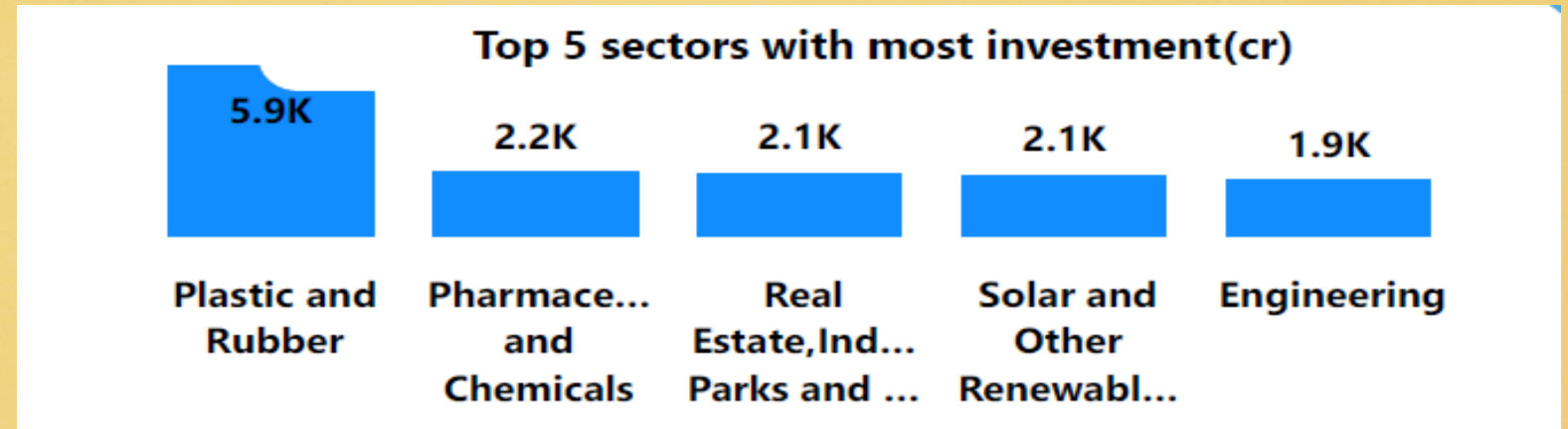
Insights



This suggests that the Telangana government is focused on attracting investments in sectors that have high growth potential and that can create jobs. The government is also focused on attracting investments in sectors that can help to reduce the state's reliance on fossil fuels and promote sustainable development.



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



Suggestions for the Telangana government:

- Providing tax breaks and other incentives to investors.
- Simplifying the regulatory process for businesses.
- Investing in infrastructure development, such as roads, railways, and airports.
- Promoting the state as a good place to do business.



Insights

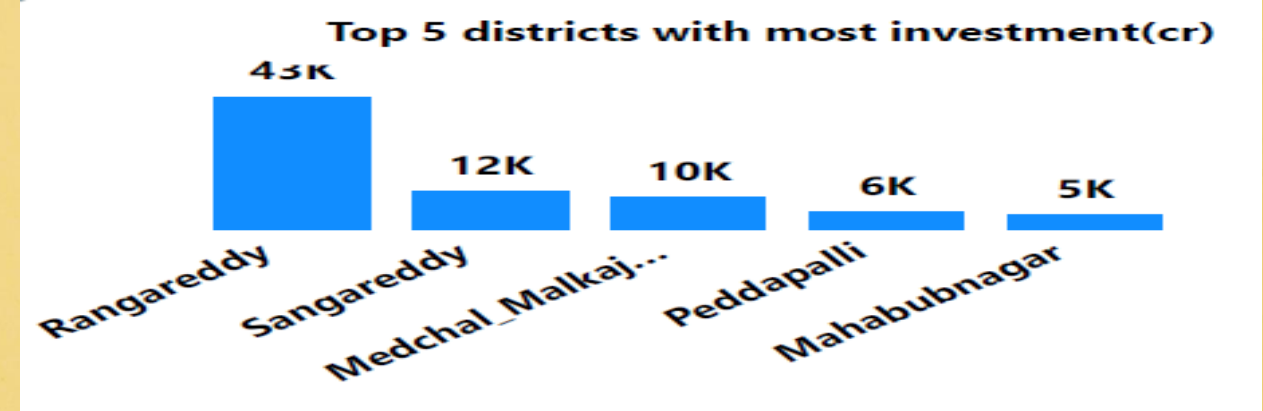


Factors that have led to substantial investments in these districts:

- Well-developed infrastructure
- Proximity to major markets
- Availability of skilled labor
- Government incentives



❑ 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?



Suggestions for the Telangana government:

- Develop sector-specific industrial parks
- Provide training to the local workforce to meet the specific needs of the industries
- Promote public-private partnerships



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

Insights



In the transition from FY 2021 to 2022, a clear correlation emerges between district investments, vehicle sales, and stamps revenue within the same district.

District Investments: Districts with substantial sector investments experience heightened business activities, leading to increased vehicle and property sales. This, in turn, drives up E-challan revenue due to greater demand.

Vehicle Sales: Telangana's TS_PASS initiative has attracted businesses in sectors like pharmaceuticals, IT, and manufacturing. As these businesses expand, employees often opt for vehicles for commuting, resulting in a notable increase in E-challan revenue.

Stamps Revenue: Districts with higher E-challan revenue tend to exhibit higher stamps revenue. Increased E-challan revenue provides governments with more funds for various sector projects, attracting additional investments.

Example: Rangareddy district in Telangana exemplifies this trend, with FY 2022 showing increased sector investments, vehicle sales, and stamps revenue, thanks to the presence of prominent industries and IT companies.

Conclusion: In summary, there's a clear connection between district investments, vehicle sales, and stamps revenue during FY 2021 to 2022. Districts with robust sector investments and higher vehicle sales typically experience elevated stamps revenue, driven by increased economic activity and heightened demand for vehicles and properties.



Insights



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

Between FY 2021 and 2022, two sectors garnered notable investments across multiple districts:

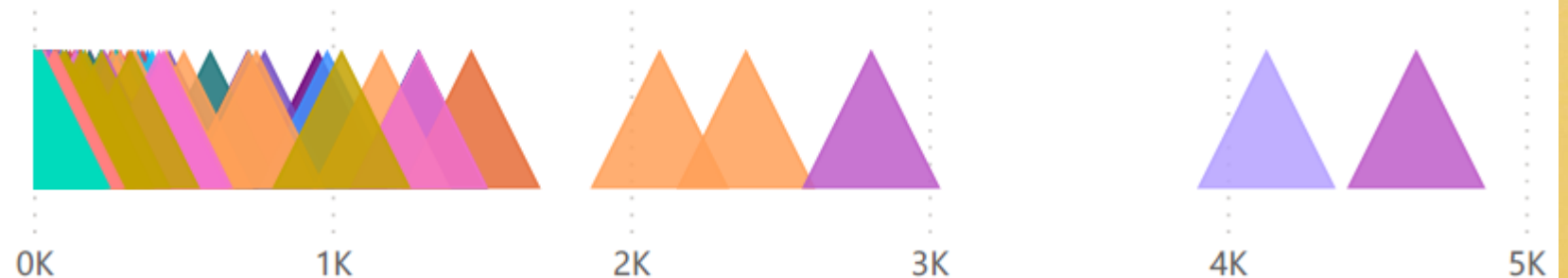
Plastic and Rubber Sector:

- Rangareddy: 4633 crore
- Sangareddy: 2860 crore

Pharmaceutical and Chemical Sector:

- Sangareddy: 2387 crore rupees
- Medchal-Malkajgiri: 2098 crore

Investment by District and Sectors





Insights



- **Fertilizers, Insecticides, and Pesticides Sector**

Investments of Rs. 5,400 crore are evident in the month of December.

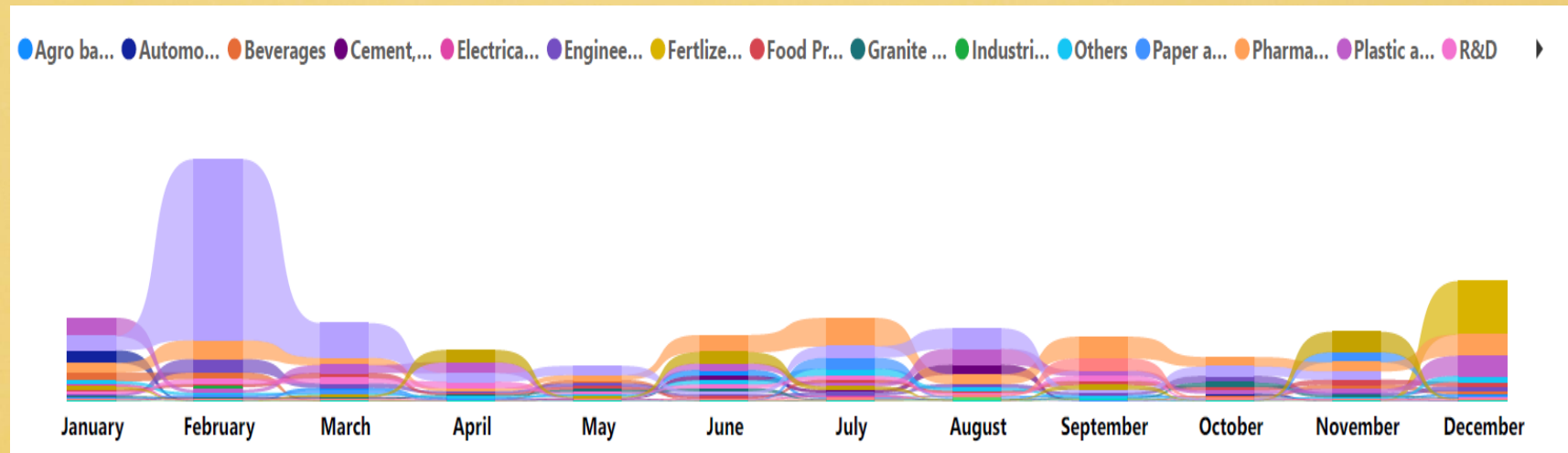
Reason: December aligns with the Rabi season in Telangana, prompting higher investments in the agricultural sector for fertilizers and pesticides to meet the winter crop demands.

- **Real Estate, Industrial Park, and IT Building Sector**

Significant investments of over Rs. 17,000 crore are observed in the month of February.

Reason: This surge in investments during February can be attributed to favorable weather conditions and reduced construction delays due to milder temperatures.

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



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

1. Hyderabad

Hyderabad is the capital of Telangana and is one of the most important economic and commercial hubs in India. It is home to a large number of multinational corporations, IT companies, and startups.

2. Rangareddy

Rangareddy district is located on the outskirts of Hyderabad and is home to several important IT hubs, including Gachibowli, Madhapur, and Hitech City.

3. Medchal-Malkajgiri

Medchal-Malkajgiri district is located adjacent to Hyderabad and is also home to several important IT hubs, including Kokapet, Financial District, and Uppal.

4. Sangareddy

Sangareddy district is located on the northern outskirts of Hyderabad and is home to several industrial estates and manufacturing units. It is also well-connected to Hyderabad and Andhra Pradesh.

5. Mahabubnagar

Mahabubnagar district offers opportunities for industrial investments. With well-established road and rail connections to Hyderabad, it provides a strategic location for businesses seeking commercial properties.

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

- **TS-iPASS:** TS-iPASS (Telangana State Industrial Project Approval and Self-Certification System) is a single-window system for obtaining all necessary approvals for setting up an industrial unit in Telangana. It has made the process of starting a business much easier and faster.
- **TS-bPASS:** TS-bPASS (Telangana State Building Permissions Approvals and Self-Certification System) is a similar single-window system for obtaining all necessary approvals for construction projects. It has also made it easier and faster to start construction projects in the state.
- **Rythu Bandhu:** Rythu Bandhu is a scheme that provides direct financial assistance to farmers to purchase agricultural inputs. This scheme has helped to improve agricultural productivity and incomes in Telangana.
- **Mission Kakatiya:** Mission Kakatiya is a scheme to restore and renovate tanks and irrigation canals in Telangana. This scheme has helped to improve irrigation infrastructure and increase the area under irrigation.
- **T-Hub:** T-Hub is a technology innovation hub that provides support to startups and entrepreneurs. It has helped to foster a vibrant startup ecosystem in Telangana.

As a result of these policies and initiatives, Telangana has become one of the fastest-growing states in India. The state's economy has grown at an average rate of 10% per year over the past decade. Telangana has also attracted significant investments from both domestic and foreign investors. In 2022-23, Telangana attracted investments of Rs. 20,237 crore, which is the highest of any state in India.

Top 5 Insights to Telangana government for sustained growth in the next 5 years.

- Telangana is a well-positioned state for economic growth. It has a strong economy, a growing population, a well-developed infrastructure, and a skilled workforce.
- The state has a number of key sectors that have the potential to drive future growth. These include IT, manufacturing, pharmaceuticals, and tourism.
- Telangana has a number of competitive advantages that can help it to attract investments and businesses. These include a favorable business environment, a well-educated workforce, and a strategic location.
- The state government has put into effect a number of significant policies and initiatives to promote economic growth, investments, and employment. These policies and initiatives have had a positive impact on the state's economy and have made Telangana a more attractive destination for investors and businesses.
- Telangana needs to continue to invest in its infrastructure and workforce. The state also needs to focus on promoting innovation and entrepreneurship.

Top 5 Recommendations to Telangana Government for Sustained Growth in the Next 5 Years

- **Continue to invest in infrastructure and workforce.** Telangana needs to invest in roads, railways, airports, and other infrastructure projects to support economic growth. The state also needs to invest in skill training and education to create a workforce that meets the needs of the growing economy.
- **Focus on key sectors.** Telangana should focus on promoting the growth of key sectors such as IT, manufacturing, pharmaceuticals, and tourism. The state can do this by providing incentives to businesses in these sectors and by improving the infrastructure and support services that they need.
- **Attract investments.** Telangana should continue to attract investments from both domestic and foreign investors. The state can do this by creating a favorable business environment, by providing incentives to investors, and by showcasing the state's competitive advantages.
- **Promote innovation and entrepreneurship.** Telangana should promote innovation and entrepreneurship by creating an ecosystem that supports startups and startups. The state can do this by providing funding, mentorship, and other support services to startups.
- **Create jobs.** Telangana needs to create jobs for its growing population. The state can do this by promoting the growth of key sectors, by attracting investments, and by supporting startups.

