

TELANGANA GROWTH ANALYSIS

Exploring Telangana's Evolution





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INTRODUCTION

Telangana is a state located in southern India. It was officially formed as the 29th state of India on June 2, 2014, following a historic separation from the larger state of Andhra Pradesh.

The capital of Telangana is Hyderabad, one of India's major metropolitan cities known for its rich history, culture, and technological advancements.



The state has a significant cultural and linguistic diversity, with Telugu and Urdu being the primary languages spoken.

Telangana is known for its historical landmarks, including the Golconda Fort, Charminar, Qutb Shahi Tombs, and several other architectural marvels that reflect its rich history.

The economy of Telangana has seen significant growth, with a focus on industries such as Information Technology, Pharmaceuticals, Agriculture, and Manufacturing.

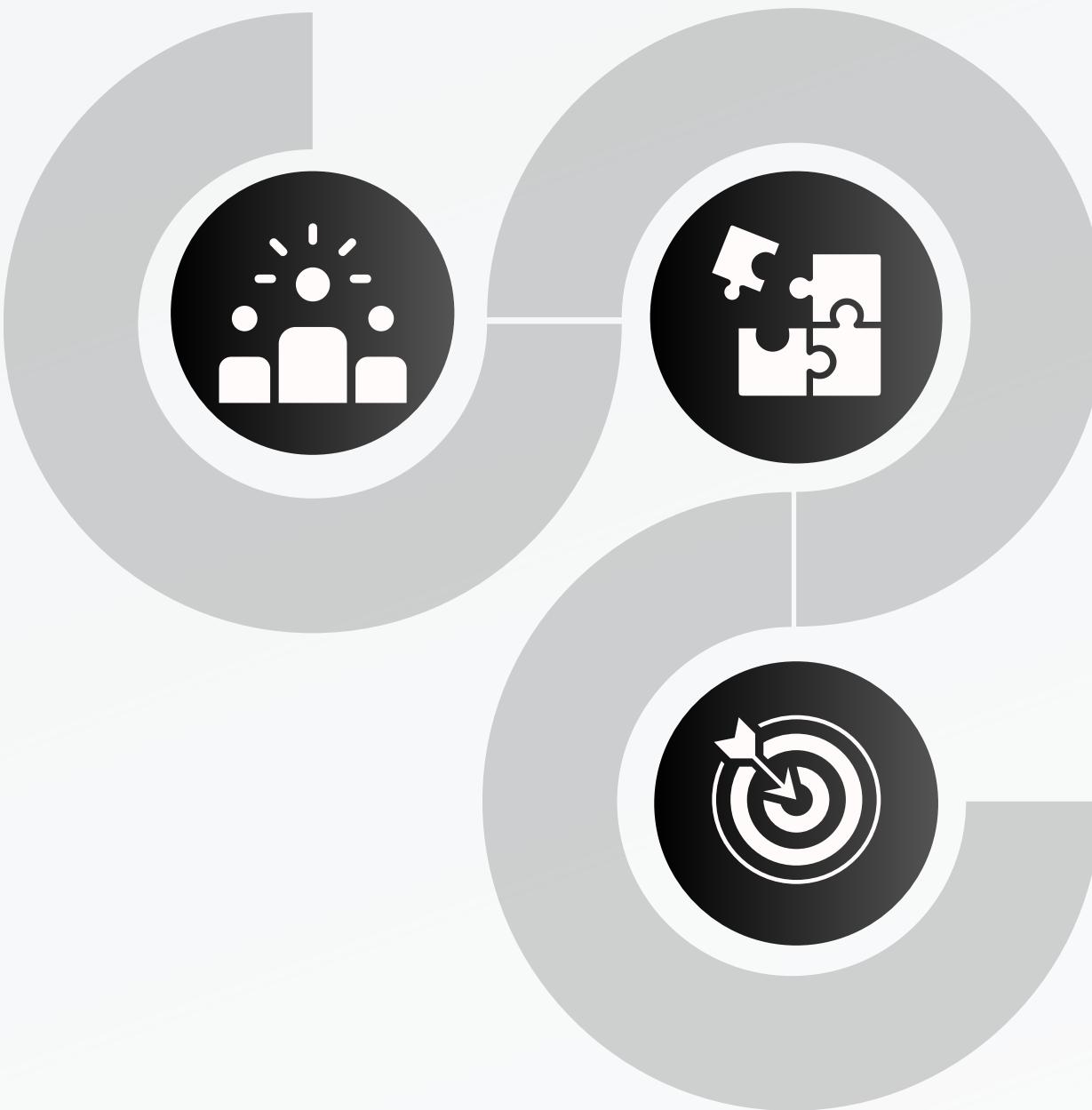
OBJECTIVES

- 01** Explore Stamp Registration, Transportation, and TS-iPASS Datasets. Understand their attributes, categories, and time periods.

- 02** Analyze trends and patterns within each department.

- 03** Identify growth opportunities and areas needing attention.

- 04** Find correlations among these departments and report the overall growth of the state.



TOOLS USED



Power BI

For Analysis
&
Visualization



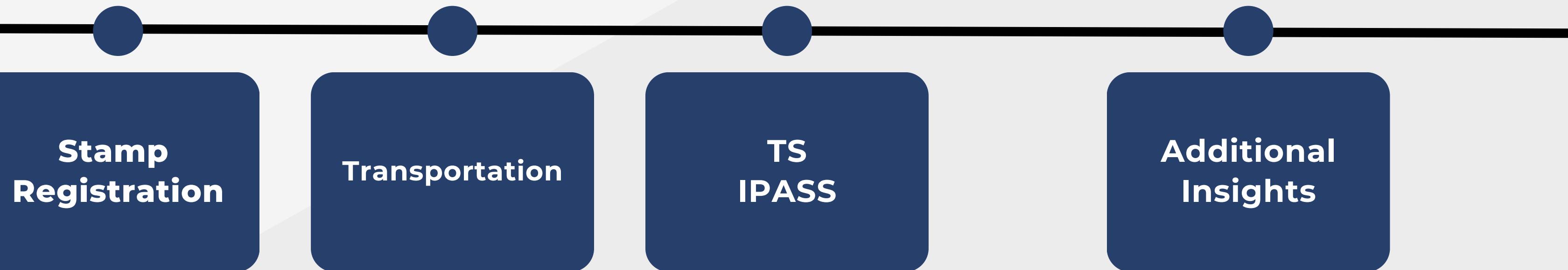
For Editing
&
Presentation

ANALYSIS AREAS



PRIMARY AREAS

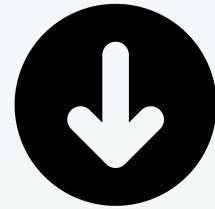
SECONDARY AREAS



PRIMARY AREAS

Stamp Registration

This section offers valuable insights into the revenue generated through Document Registrations and E-stamp Challan payments, presented across different levels of aggregation



Analysis 1 - 4

Transportation

This section offers valuable insights into vehicle sales data sourced from the RTA (Regional Transport Authority) of Telangana. The data is systematically categorized based on several key factors, including fuel type, vehicle class, seating capacity, and other relevant general categories



Analysis 5 - 7

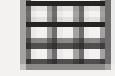
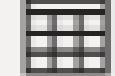
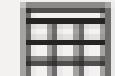
TS-iPASS

This section offers valuable insights into units or businesses that have been established within the state through the implementation of the "Industrial Project Approval and Self-Certification System" (iPASS).



Analysis 8 - 12

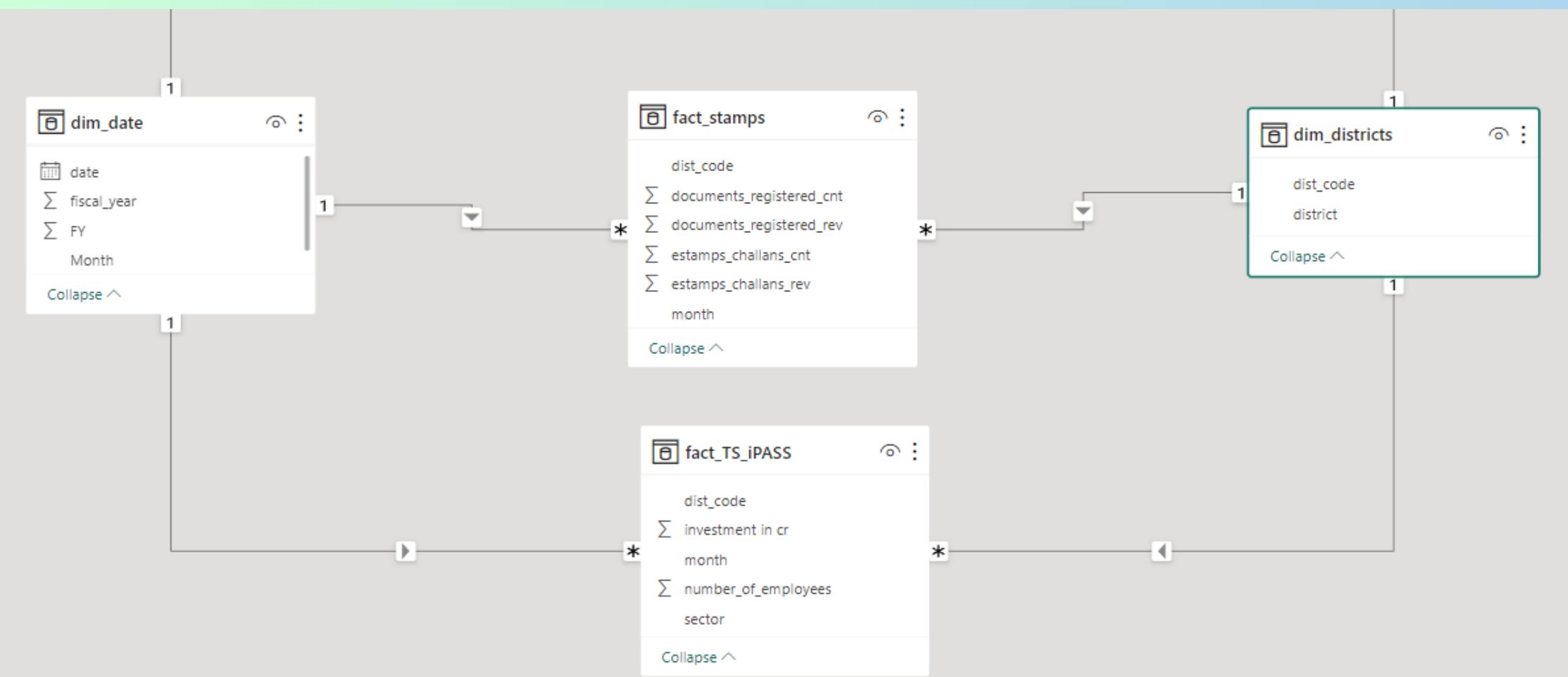
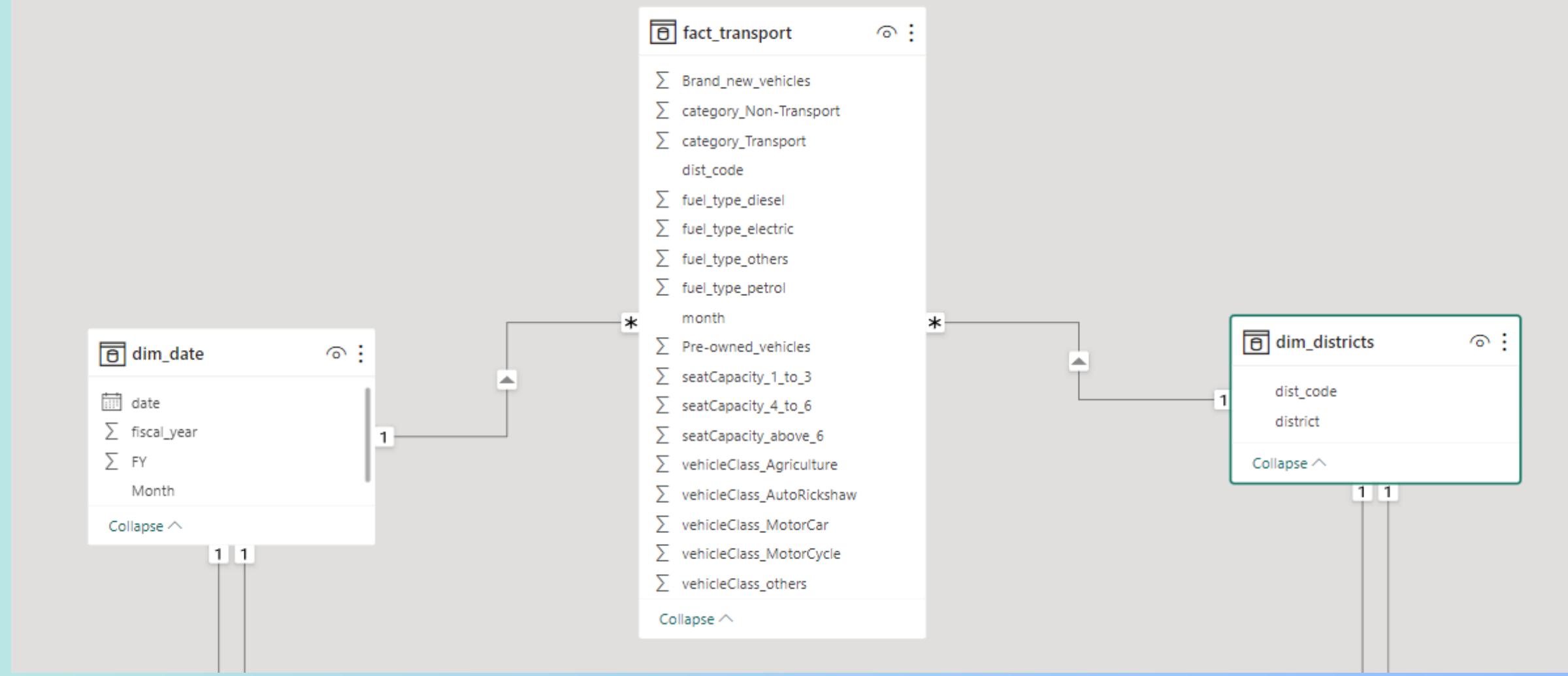
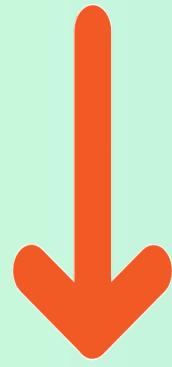
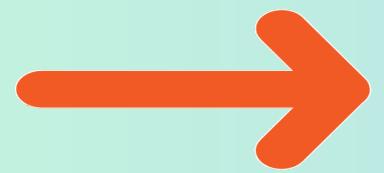
Data Tables

- >  dim_date
- >  dim_districts
- >  fact_stamps
- >  fact_transport
- >  fact_TS_iPASS

Created Measures

- ✓  Key Measures (2)
- >  Class Vehicles
- >  Count
- >  FT ALL Vehicles
- >  FT-Diesel Vehicle
- >  FT-Electric Vehicles
- >  FT-Petrol Vehicles
- >  Revenue

Data Modelling



STAMP - REGISTRATION ANALYSIS

REGISTRATION & STAMPS DEPARTMENT
Government of Telangana

Acts&Rules ▾ FAQ's ▾ RTI Act ▾ Downloads ▾ Citizen's Charter Ready Reckoner

USER LOGIN

User Type

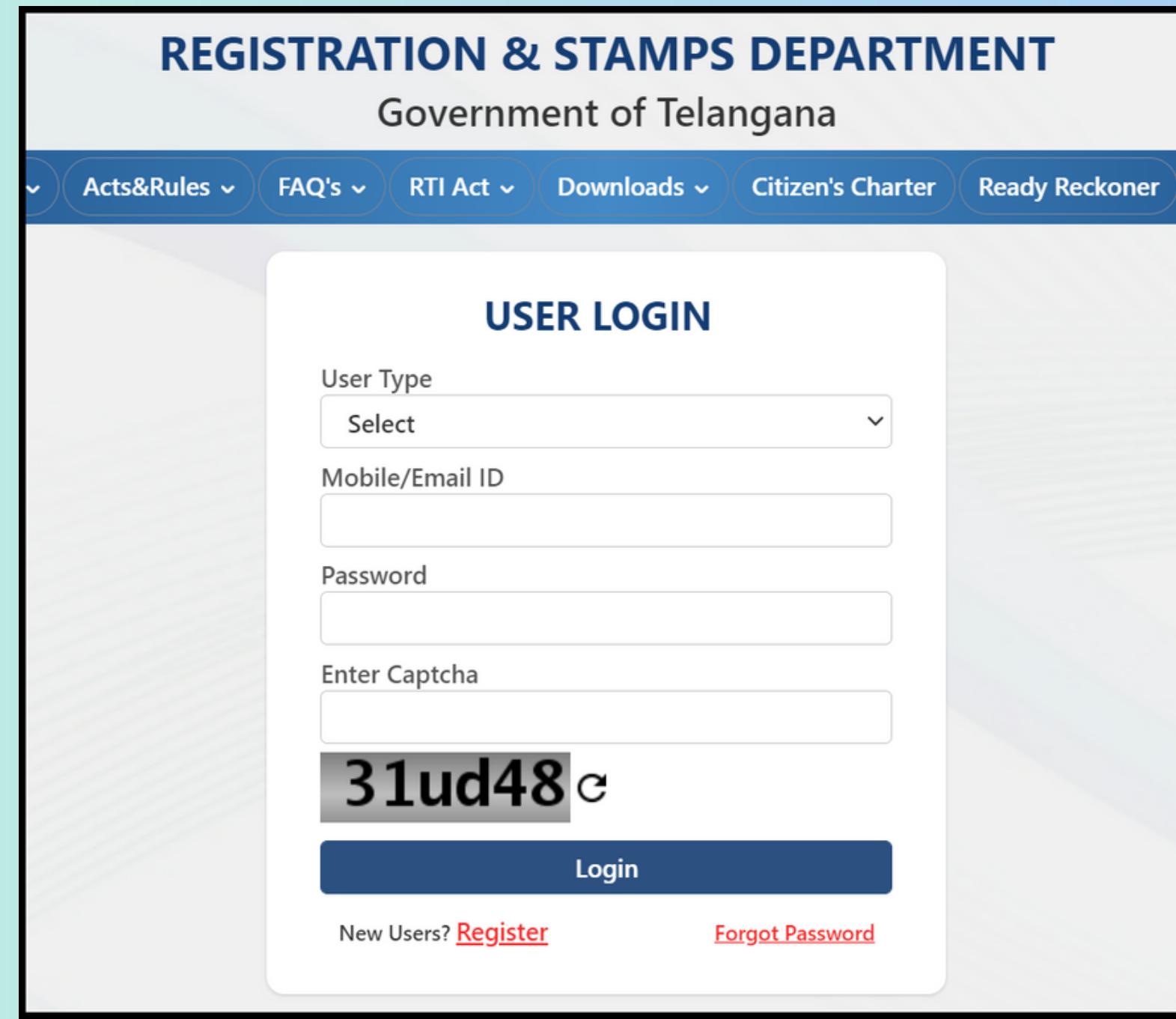
Mobile/Email ID

Password

Enter Captcha

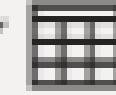
Login

New Users? [Register](#) [Forgot Password](#)

A screenshot of a web-based user login interface. At the top, the title "REGISTRATION & STAMPS DEPARTMENT" and subtitle "Government of Telangana" are displayed. Below this is a blue navigation bar with links: "Acts&Rules", "FAQ's", "RTI Act", "Downloads", "Citizen's Charter", and "Ready Reckoner". The main area is titled "USER LOGIN". It contains four input fields: "User Type" (a dropdown menu currently set to "Select"), "Mobile/Email ID", "Password", and "Enter Captcha" (containing the text "31ud48c"). Below these fields is a large blue "Login" button. At the bottom of the form, there are two links: "New Users? [Register](#)" and "[Forgot Password](#)". The entire form is contained within a white box with rounded corners.

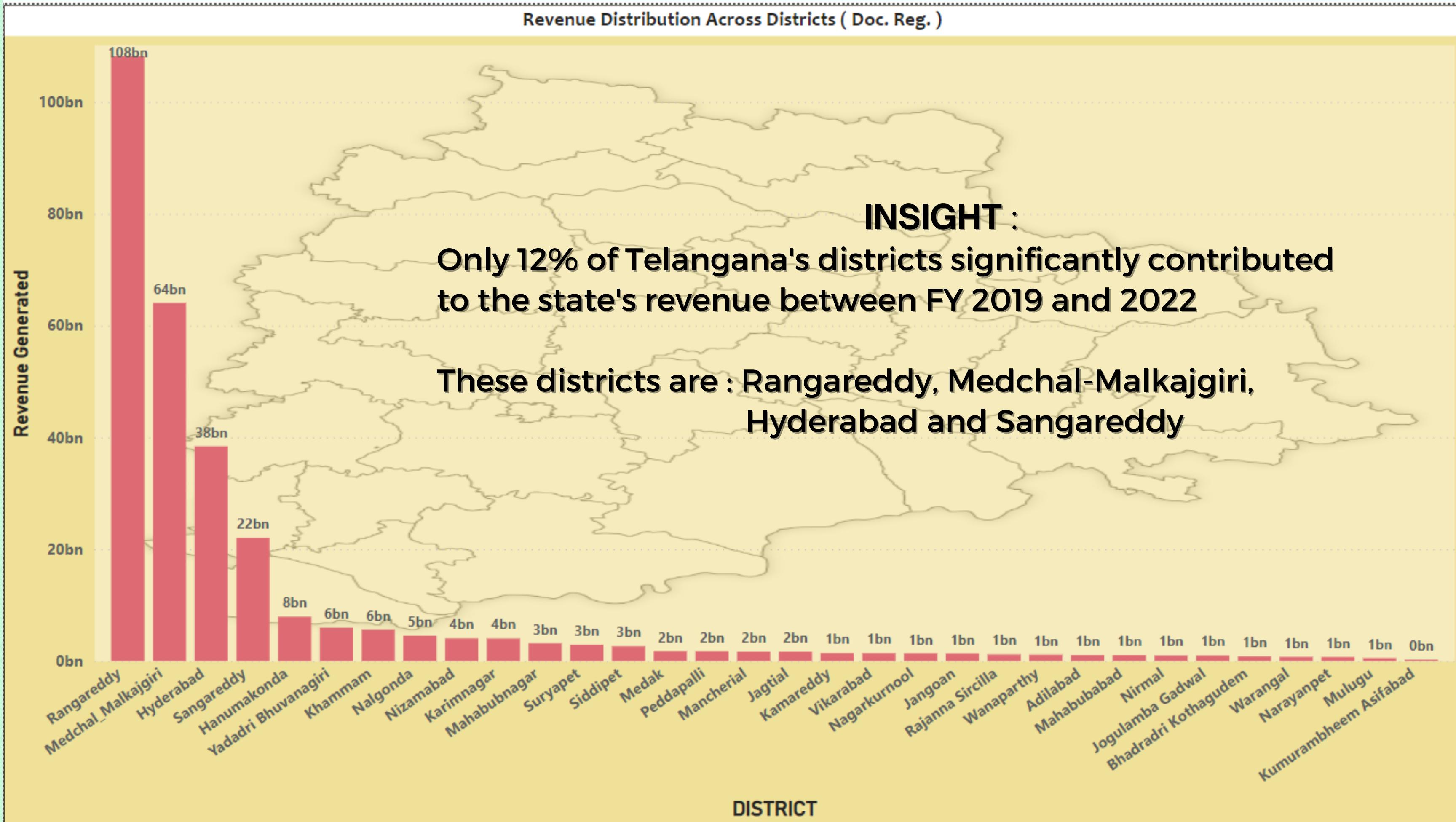
Analysis 1(A) How does the revenue generated from document registration vary across districts in Telangana?

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✓  fact_stamps

- dist_code
- \sum documents_registered_cnt 
- \sum documents_registered_rev
- \sum estamps_challans_cnt 
- \sum estamps_challans_rev
- month

Analysis 1(A) How does the revenue generated from document registration vary across districts in Telangana?



Analysis 1(B) List down the top 5 districts that showed the highest document registration revenue growth between FY 2019 and 2022.

Analysis 1(B) List down the top 5 districts that showed the highest document registration revenue growth between FY 2019 and 2022.

```
Revenue FY-2019 = CALCULATE(SUM(fact_stamps[documents_registered_rev])  
, dim_date[fiscal_year] = 2019)
```

```
Revenue FY-2022 = CALCULATE(SUM(fact_stamps[documents_registered_rev])  
, dim_date[fiscal_year] = 2022)
```

```
Revenue Growth % = DIVIDE([Revenue FY-2022] - [Revenue FY-2019],  
[Revenue FY-2019], 0)
```



$$\text{Growth \%} = \left(\frac{\text{Revenue}_{2022}}{\text{Revenue}_{2019}} - 1 \right) \times 100\%$$

Analysis 1(B)	District Code	District	Revenue FY-2019	Revenue FY-2022	Rev. Growth %
	21_6	Mulugu	0.08bn	0.22bn	1.71
	19_1	Adilabad	0.18bn	0.40bn	1.23
	20_1	Karimnagar	0.80bn	1.55bn	0.93
	19_3	Mancherial	0.34bn	0.65bn	0.92
	15_2	Medchal_Malkajgiri	12.54bn	24.04bn	0.92
	14_4	Wanaparthy	0.23bn	0.44bn	0.89
	21_5	Mahabubabad	0.21bn	0.40bn	0.88
	18_1	Nizamabad	0.77bn	1.44bn	0.86
	17_3	Siddipet	0.56bn	1.01bn	0.80
	22_2	Bhadradri Kothagudem	0.16bn	0.29bn	0.80
	17_2	Secunderabad	4.60bn	8.27bn	0.80

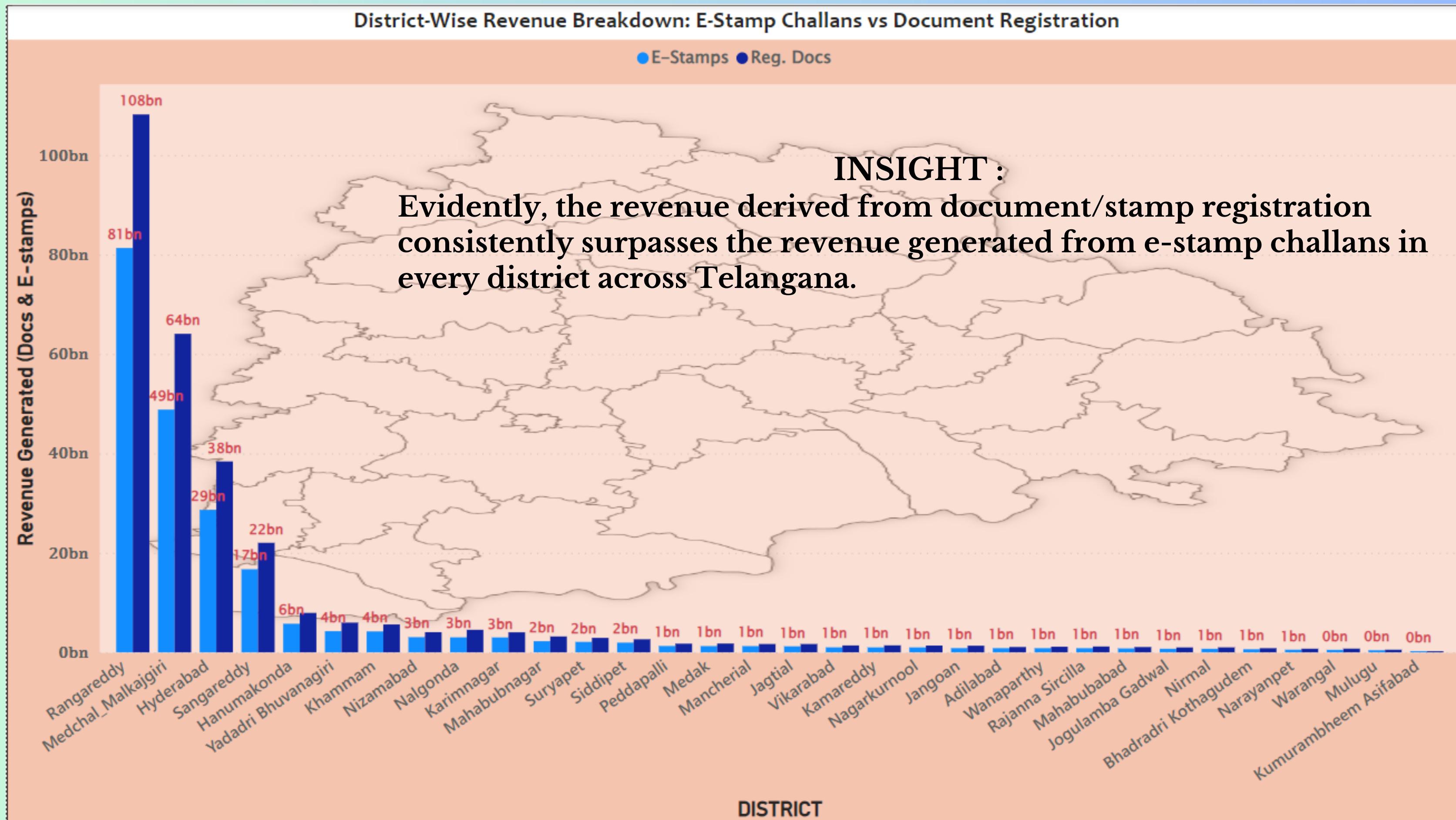
INSIGHT :

While Mulugu exhibited the lowest initial revenue from document registration, it also demonstrated the most remarkable revenue growth between FY 2019 and 2022.

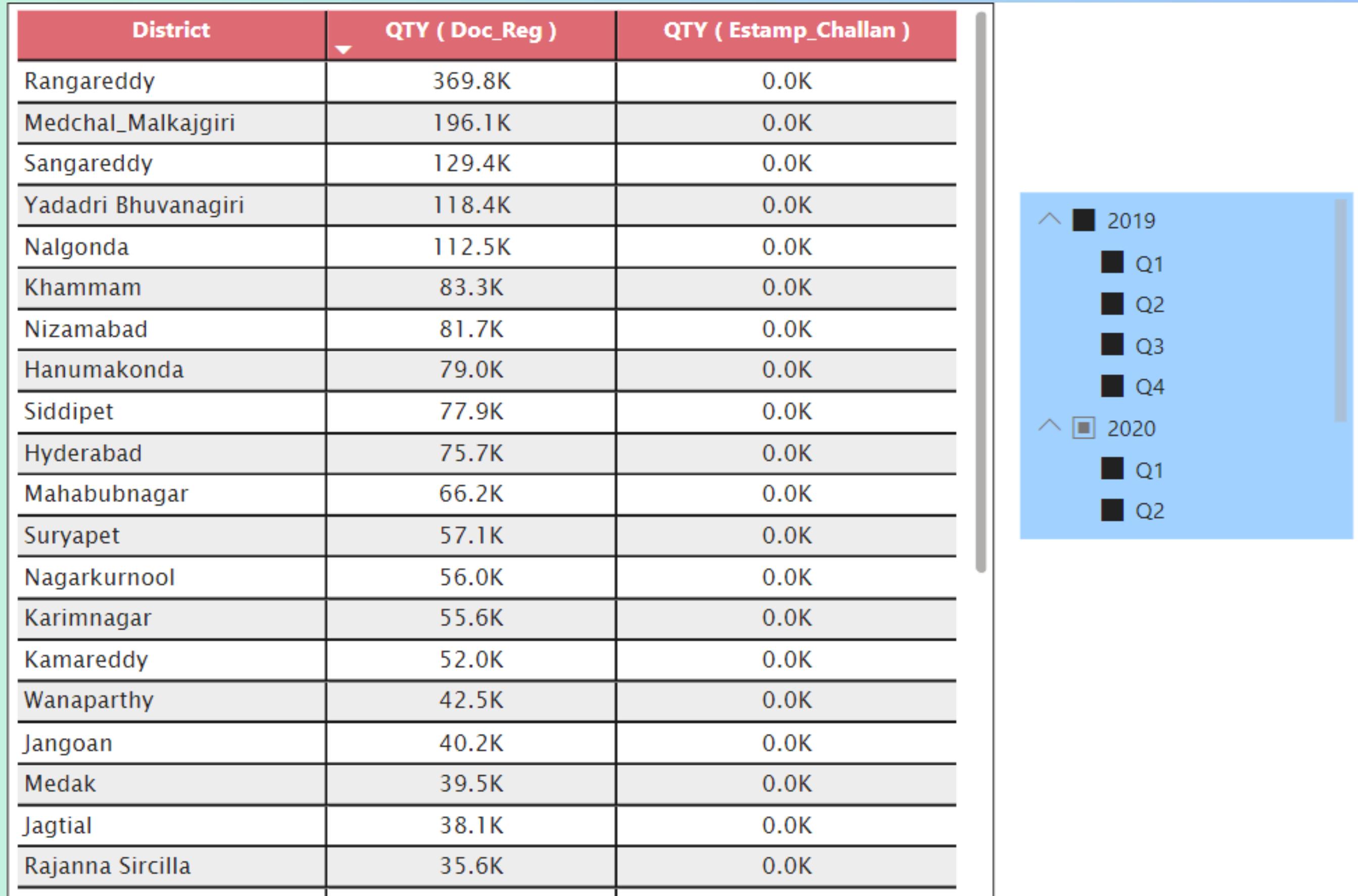
**Analysis How does the revenue generated from document/stamp registration
2(A) compare to the revenue generated from e-stamp challans across districts?**

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

2(A)



Analysis 2(A) However, upon further analysis, it becomes apparent that the introduction of e-stamp challans did not occur until the second quarter of 2020.



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

Analysis

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

2(B)



District	Total Rev. (EStamp_Challan)	Total Rev. (Doc_Reg)	Rev. Difference
Rangareddy	38.35bn	37.70bn	0.65bn
Hyderabad	14.37bn	14.27bn	0.11bn
Khammam	2.00bn	1.97bn	0.03bn
Hanumakonda	2.85bn	2.82bn	0.03bn
Yadadri Bhuvanagiri	2.19bn	2.17bn	0.02bn
Mahabubnagar	1.08bn	1.07bn	0.02bn
Mancherial	0.66bn	0.65bn	0.01bn
Jangoan	0.49bn	0.47bn	0.01bn
Siddipet	1.02bn	1.01bn	0.01bn
Peddapalli	0.62bn	0.61bn	0.01bn
Nalgonda	1.38bn	1.37bn	0.01bn
Nizamabad	1.45bn	1.44bn	0.01bn
Kamareddy	0.48bn	0.47bn	0.01bn
Nirmal	0.35bn	0.34bn	0.01bn
Jagtial	0.64bn	0.63bn	0.01bn
Karimnagar	1.56bn	1.55bn	0.01bn
Vikarabad	0.52bn	0.51bn	0.00bn
Rajanna Sircilla	0.46bn	0.45bn	0.00bn
Narayanpet	0.26bn	0.26bn	0.00bn
Loculambha Gadwal	0.33bn	0.33bn	0.00bn

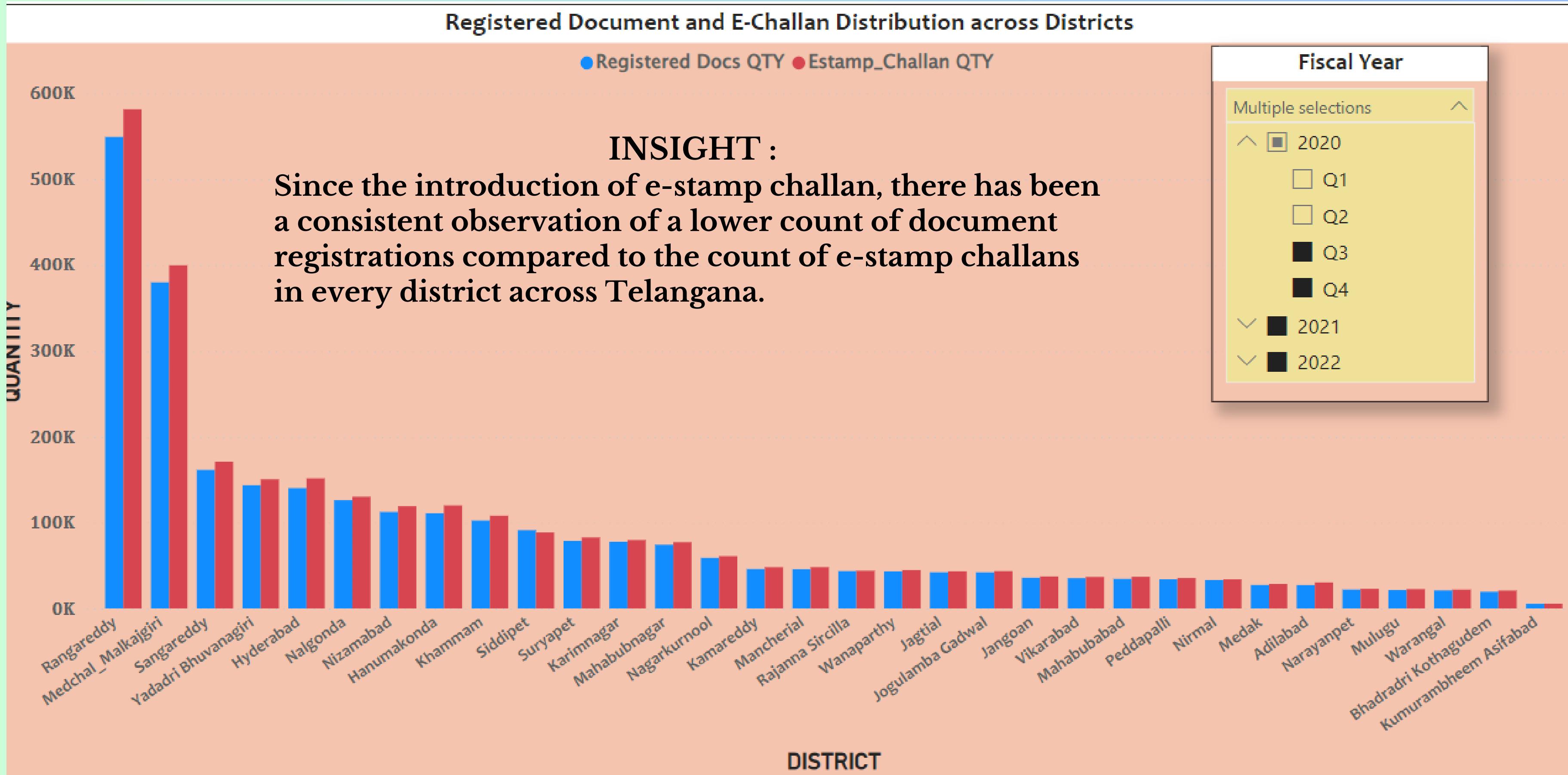
- ▼ 2019
- ▼ 2020
- ▼ 2021
- ▼ 2022

Analysis Is there any alteration of the e-Stamp challan count and document registration count pattern since the implementation of the e-Stamp challan?

3(A)

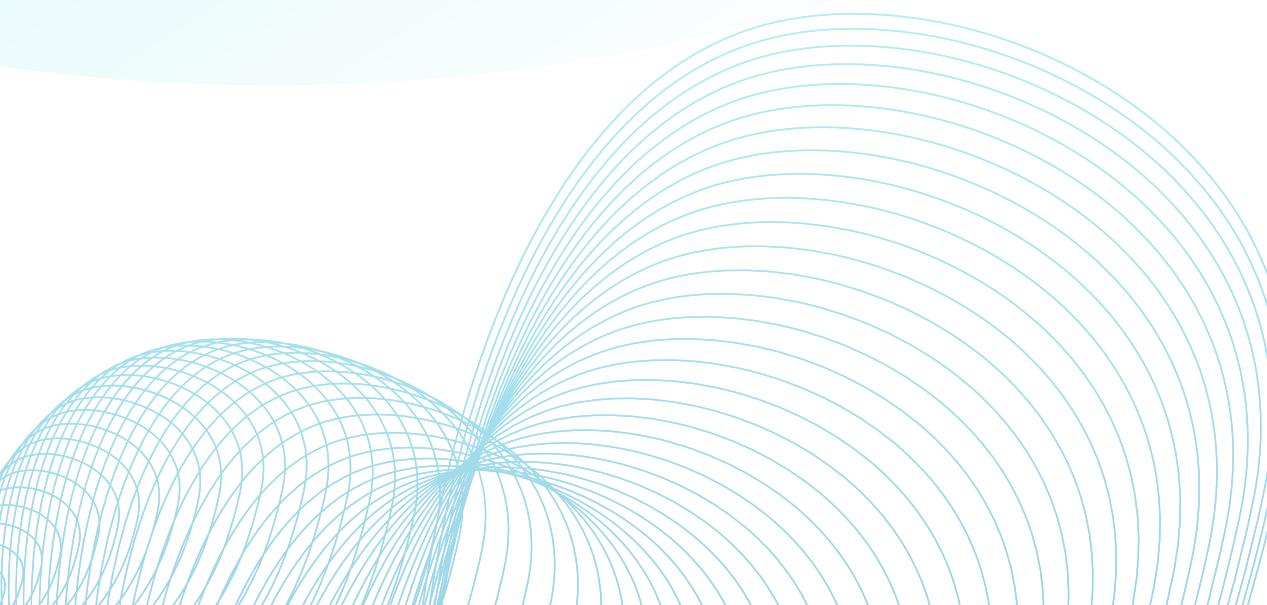
Analysis Is there any alteration of the e-Stamp challan count and document registration count pattern since the implementation of the e-Stamp challan?

3(A)



**Analysis
3(B)**

If so, what suggestions would you propose to the government?



Analysis 3(B)

If so, what suggestions would you propose to the government?

Suggestion 1:

Digital Transformation Promotion:

Encourage the government to continue promoting and investing in digital transformation initiatives. This could include offering incentives for citizens and businesses to use digital platforms for registrations and transactions.

Suggestion 2:

User-Friendly Online Services:

Ensure that the online platforms for e-challan registrations are user-friendly, easy to navigate, and accessible to a wide range of users, including those with limited digital literacy.

Suggestion 3:

Education and Awareness Campaigns:

Run education and awareness campaigns to inform citizens and businesses about the benefits of using digital platforms for registrations. Highlight the convenience, time savings, and reduced paperwork associated with online processes.

Analysis

3(B)

Suggestion 4:

Customer Support and Assistance:

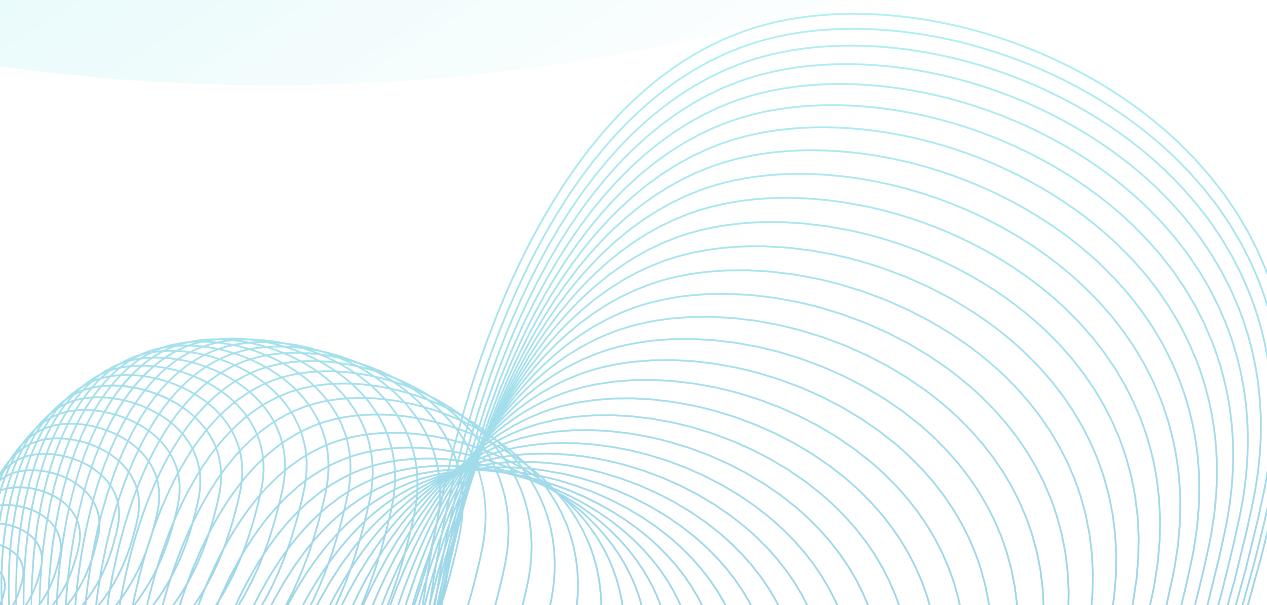
Provide adequate customer support channels for users who might face issues or have questions while using the online registration platforms. This can help build trust in the digital services.

Suggestion 5 :

Data Security and Privacy:

Emphasize the government's commitment to data security and privacy. Assure users that their personal and financial information is being handled securely and in compliance with relevant regulations.

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



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

The following measures have been established to classify districts into three distinct segments, grounded in their stamp registration revenue generation over the fiscal year 2021 to 2022.

The outcome of this categorization is displayed in the table provided on the next slide.

Total Rev StampReg. = [Total Rev Doc Reg 21-22] + [Total Rev ESC 21-22]

```
Revenue Segment =  
SWITCH(  
    TRUE(),  
    [Total Rev StampReg.] >= 10000000000, "Remarkable Revenue",  
    AND([Total Rev StampReg.] >= 5000000000, [Total Rev StampReg.] < 10000000000), "High Revenue",  
    "Ample Revenue"  
)
```

Analysis

4

District	Total Rev StampReg.	Revenue Segment
Rangareddy	140.25bn	Remarkable Revenue
Medchal_Malkajgiri	84.59bn	High Revenue
Hyderabad	50.25bn	High Revenue
Sangareddy	29.40bn	Ample Revenue
Hanumakonda	9.85bn	Ample Revenue
Yadadri Bhuvanagiri	7.59bn	Ample Revenue
Khammam	7.26bn	Ample Revenue
Karimnagar	5.25bn	Ample Revenue
Nizamabad	5.21bn	Ample Revenue
Nalgonda	5.19bn	Ample Revenue
Mahabubnagar	3.94bn	Ample Revenue
Suryapet	3.62bn	Ample Revenue
Siddipet	3.50bn	Ample Revenue
Medak	2.27bn	Ample Revenue
Peddapalli	2.24bn	Ample Revenue
Mancherial	2.19bn	Ample Revenue
Jagtial	2.15bn	Ample Revenue
Vikarabad	1.79bn	Ample Revenue
Nagarkurnool	1.76bn	Ample Revenue
Kamareddy	1.71bn	Ample Revenue
Rajanna Sircilla	1.49bn	Ample Revenue
Wanaparthy	1.49bn	Ample Revenue
Lanaparthy	1.48bn	Ample Revenue

TRANSPORTATION ANALYSIS



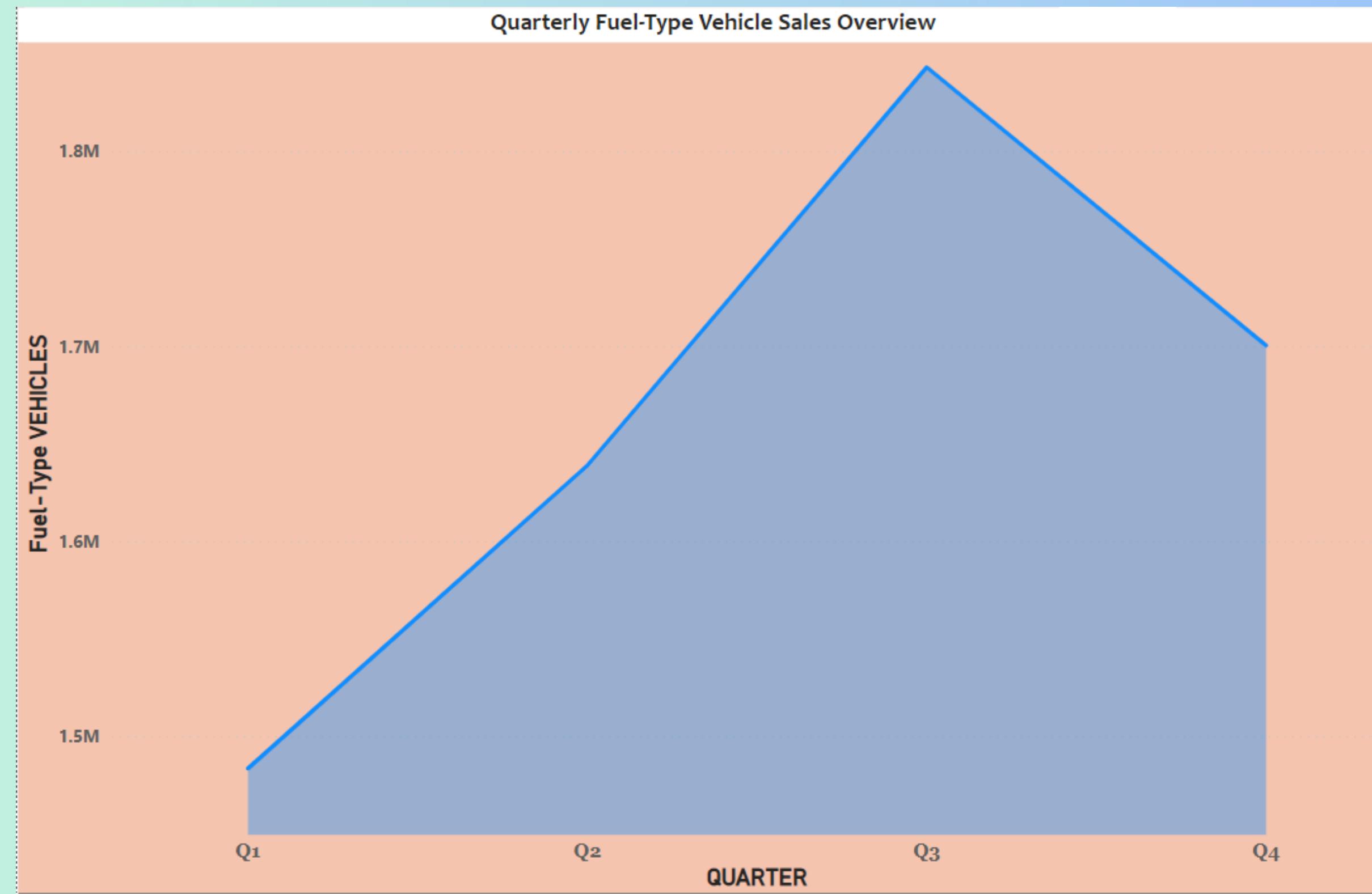
Analysis 5 Investigate whether there is any correlation between vehicle sales and specific months or seasons in different districts.
Are there any months or seasons that consistently show higher or lower sales rates, and if yes, what could be the driving factors?
(Fuel-Type Categories only)

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<input type="checkbox"/> \sum fact_transport
<input type="checkbox"/> \sum Brand_new_vehicles
<input type="checkbox"/> \sum category_Non-Transport
<input type="checkbox"/> \sum category_Transport
<input type="checkbox"/> dist_code
{
<input type="checkbox"/> \sum fuel_type_diesel
<input type="checkbox"/> \sum fuel_type_electric
<input type="checkbox"/> \sum fuel_type_others
<input type="checkbox"/> \sum fuel_type_petrol
}
<input type="checkbox"/> month
<input type="checkbox"/> \sum Pre-owned_vehicles
<input type="checkbox"/> \sum seatCapacity_1_to_3
<input type="checkbox"/> \sum seatCapacity_4_to_6
<input type="checkbox"/> \sum seatCapacity_above_6
<input type="checkbox"/> \sum vehicleClass_Agriculture
<input type="checkbox"/> \sum vehicleClass_AutoRickshaw
<input type="checkbox"/> \sum vehicleClass_MotorCar
<input type="checkbox"/> \sum vehicleClass_MotorCycle
<input type="checkbox"/> \sum vehicleClass_others

Analysis 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 rates, and if yes, what could be the driving factors?
(Fuel-Type Categories only)



Analysis - 5

The increase in sales quantity of vehicles during Q3 (Oct-Nov-Dec) in Telangana state could be attributed to the following factors :

Driving Factor 1:

Festive Season and Holidays:

October to December is a period that includes several major festivals and holidays in India, such as Diwali, Dussehra, Christmas, and New Year's Eve. During these festivals, there is often an increased tendency for people to make big purchases, including vehicles, as they seek to make celebratory purchases.

Driving Factor 2:

Year-End Discounts and Promotions:

Many businesses, including automobile dealerships, offer year-end discounts, promotions, and special deals to attract customers. This can create a sense of urgency among consumers to make purchases before the year ends.

Driving Factor 3:

Bonus and Incentive Payouts:

Many companies provide annual bonuses and incentives to their employees during the end of the year. This extra income can lead to increased purchasing power and encourage people to invest in big-ticket items like vehicles.

Analysis - 5

Driving Factor 4: New Models and Releases:

Automakers often release new models and updates around this time of year. The excitement surrounding new releases can lead to increased interest and sales.

Driving Factor 5: Wedding Season:

In many parts of India, the wedding season often falls around the same time as the festive season. Families may purchase vehicles as gifts for weddings or for transporting guests.



Analysis But, as we go forward in the dates in the same year, there is an article that gives some astonishing news, which can also be seen in the data :

5

 THE NEW
INDIAN EXPRESS

NATION WORLD STATES CITIES OPINIONS BUSINESS SPORT GOOD NEWS MOVIES PHOTOS VIDEOS

Home > States > Telangana

Telangana: Vehicle sales go through the roof in October, November

Sale of two, four-wheelers steadily increases post lockdown; from 1,226 vehicles in April,2020 to 76,519 in Oct-Nov

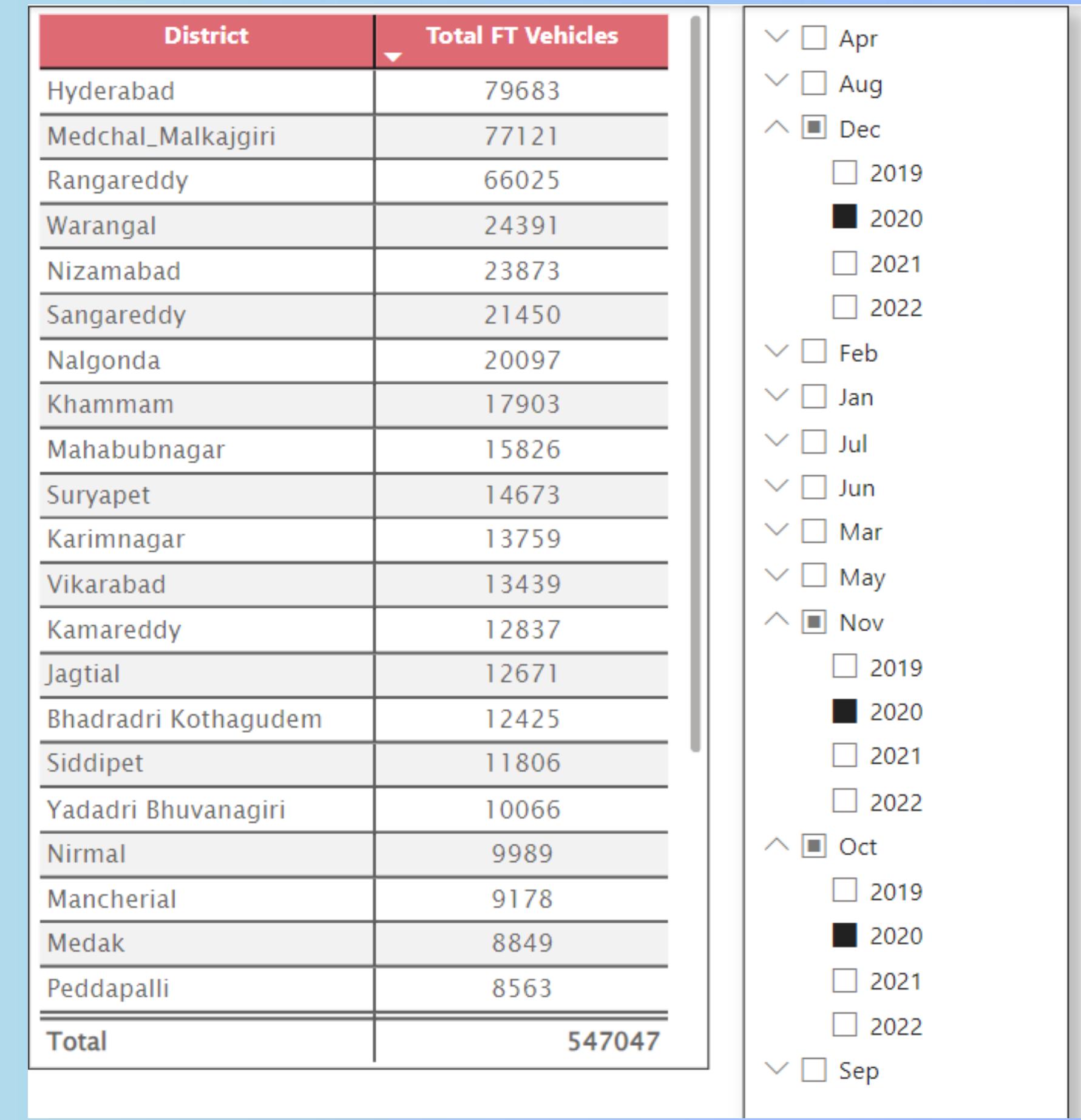
Published: 28th December 2020 08:39 AM | Last Updated: 28th December 2020 08:39 AM



For representational purposes. (File Photo | PTI)

By Oishani Mojumder
Express News Service

HYDERABAD: The sale of vehicles in Telangana witnessed a drastic drop in April and June this year. However, two and four wheelers sales picked up and saw a sharp rise in October and November, even higher than the pre-Covid times. From just 1,226 vehicles that were sold in April, the number increased to 76,519.



Analysis 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.

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Are there any districts with a predominant preference for a specific vehicle class?

Consider FY 2022 for analysis.

To get the vehicle quantity of different classe, following measures were created

```
Total VC Agr = SUM(fact_transport[vehicleClass_Agriculture])
```

```
Total VC AutRick = SUM(fact_transport[vehicleClass_AutoRickshaw])
```

```
Total VC MotCar = SUM(fact_transport[vehicleClass_MotorCar])
```

```
Total VC MotCyc = SUM(fact_transport[vehicleClass_MotorCycle])
```

```
Total VC OTH = SUM(fact_transport[vehicleClass_others])
```

Analysis 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	Agriculture V	Auto-Rickshaw V	Motor-Car V	Motor-Cycle V	Other V
Hyderabad	20	8397	51447	206819	15439
Medchal_Malkajgiri	261	83	61071	164626	18841
Rangareddy	449	69	71832	154186	20064
Sangareddy	1570	3381	14565	40784	5238
Nizamabad	1181	1011	5824	28105	2570
Nalgonda	2599	964	4927	27942	4310
Khammam	2121	2690	5880	27385	4387
Vikarabad	1814	2046	5211	23116	2650
Karimnagar	999	1042	4818	19411	10965
Suryapet	2188	739	3038	19165	4776
Mahabubnagar	937	1130	3300	17977	2780
Warangal	681	1331	2937	17770	1899
Siddipet	2437	524	3254	17401	2027
Bhadradri Kothagudem	2013	1388	3157	17022	2483
Kamareddy	748	379	2153	15184	2293
Yadadri Bhuvanagiri	1853	465	3216	14471	2632
Jagtial	858	272	2055	13639	1056
Nagarkurnool	1556	366	2066	12229	3545
Medak	1579	610	2347	11663	2095
Mancherial	400	550	2218	11603	1741
Mahabubabad	906	680	1155	11046	2028
Total	35172	30699	268141	955109	124639

Analysis 6

District-Level Analysis of Vehicle Sales

● Agriculture ● Auto-Rickshaw ● Motor-Car ● Motor-Cycle ● Other-Vehicle



INSIGHT :

Such a synchronized upswing in bike sales across all districts speaks volumes about the collective preferences and evolving mobility dynamics within Telangana during the year 2022.

Analysis 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

Analysis 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

```
VS_Diesel FY-2021 = CALCULATE([Total FT Diesel], dim_date[fiscal_year] = 2021)
```

```
VS_Diesel FY-2022 = CALCULATE([Total FT Diesel], dim_date[fiscal_year] = 2022)
```

```
Diesel Diff = [VS_Diesel FY-2022]-[VS_Diesel FY-2021]
```

Analysis

7

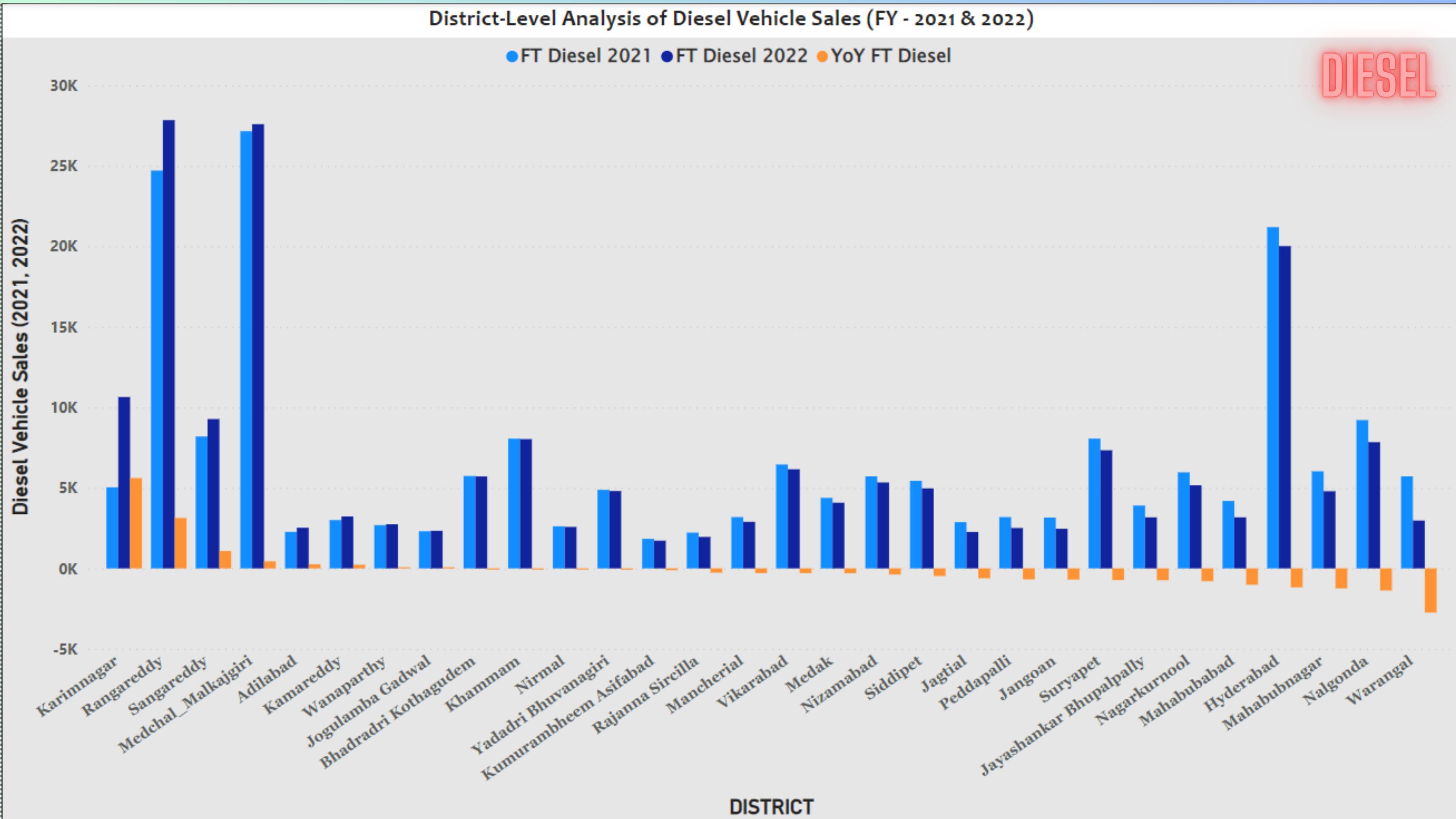
Top 3

Bottom 3

District	VS_Diesel FY-2022	VS_Diesel FY-2021	DIFFERENCE
Karimnagar	10.6K	5.0K	5610
Rangareddy	27.8K	24.7K	3132
Sangareddy	9.3K	8.2K	1082
Medchal_Malkajgiri	27.6K	27.2K	439
Adilabad	2.5K	2.3K	256
Kamareddy	3.2K	3.0K	224
Wanaparthy	2.7K	2.7K	59
Jogulamba Gadwal	2.3K	2.3K	27
Bhadradri Kothagudem	5.7K	5.7K	-27
Khammam	8.0K	8.1K	-28
Nirmal	2.6K	2.6K	-37
Yadadri Bhuvanagiri	4.8K	4.9K	-73

Analysis

7



Analysis

7

Top 3

District	VS_Elec FY-2022	VS_Elec FY-2021	DIFFERENCE
Hyderabad	20.0K	8.9K	11097
Rangareddy	13.6K	5.9K	7688
Medchal_Malkajgiri	13.7K	7.1K	6630
Sangareddy	3.0K	1.6K	1481
Jayashankar Bhupalpally	0.2K	0.1K	116
Jangoan	0.2K	0.1K	106
Kamareddy	0.3K	0.2K	90
Nagarkurnool	0.2K	0.1K	66
Mahabubabad	0.1K	0.0K	65
Mahabubnagar	0.4K	0.3K	63
Adilabad	0.3K	0.3K	56
Rajanna Sircilla	0.4K	0.4K	54
Yadadri Bhuvanagiri	0.3K	0.2K	48
Kumurambheem Asifabad	0.1K	0.0K	47
Mancherial	0.2K	0.2K	38
Jogulamba Gadwal	0.1K	0.1K	32
Wanaparthy	0.2K	0.1K	8

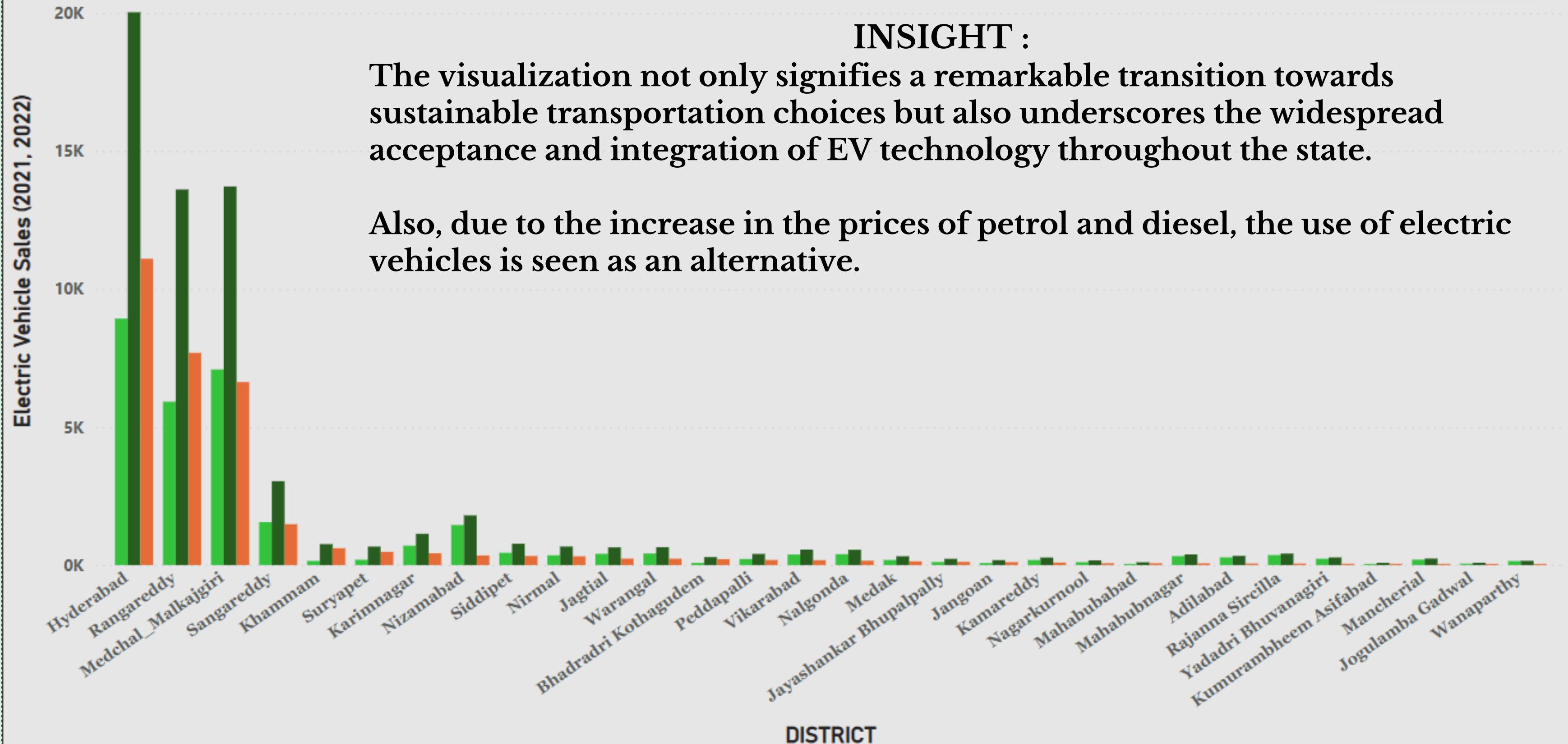
Bottom 3

Analysis 7

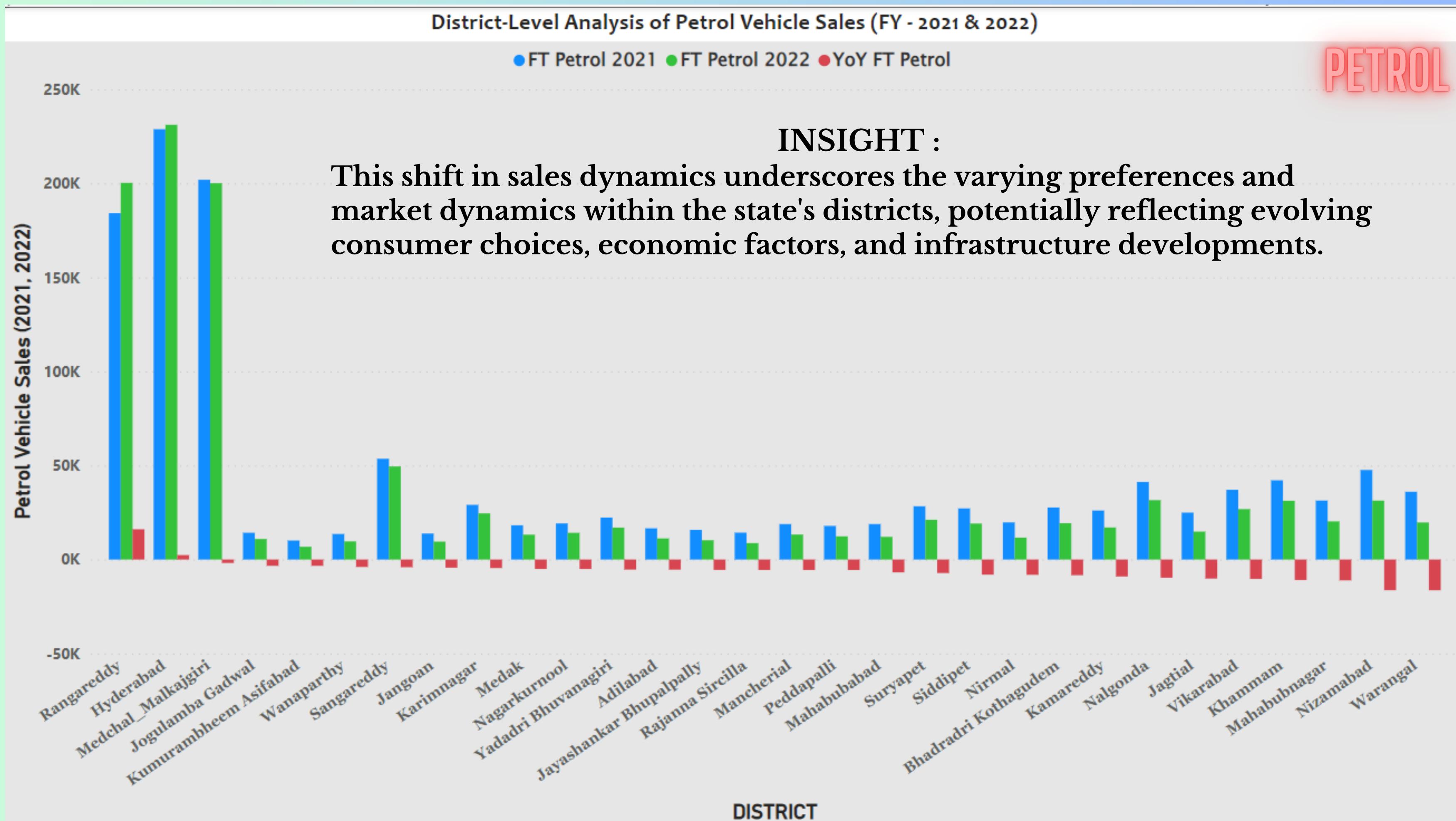
District-Level Analysis of Electric Vehicle Sales (FY - 2021 & 2022)

● FT Electric 2021 ● FT Electric 2022 ● YoY FT Electric

ELECTRIC



Analysis 7





TS-iPASS

Telangana State Industrial Project Approval and Self-certification System



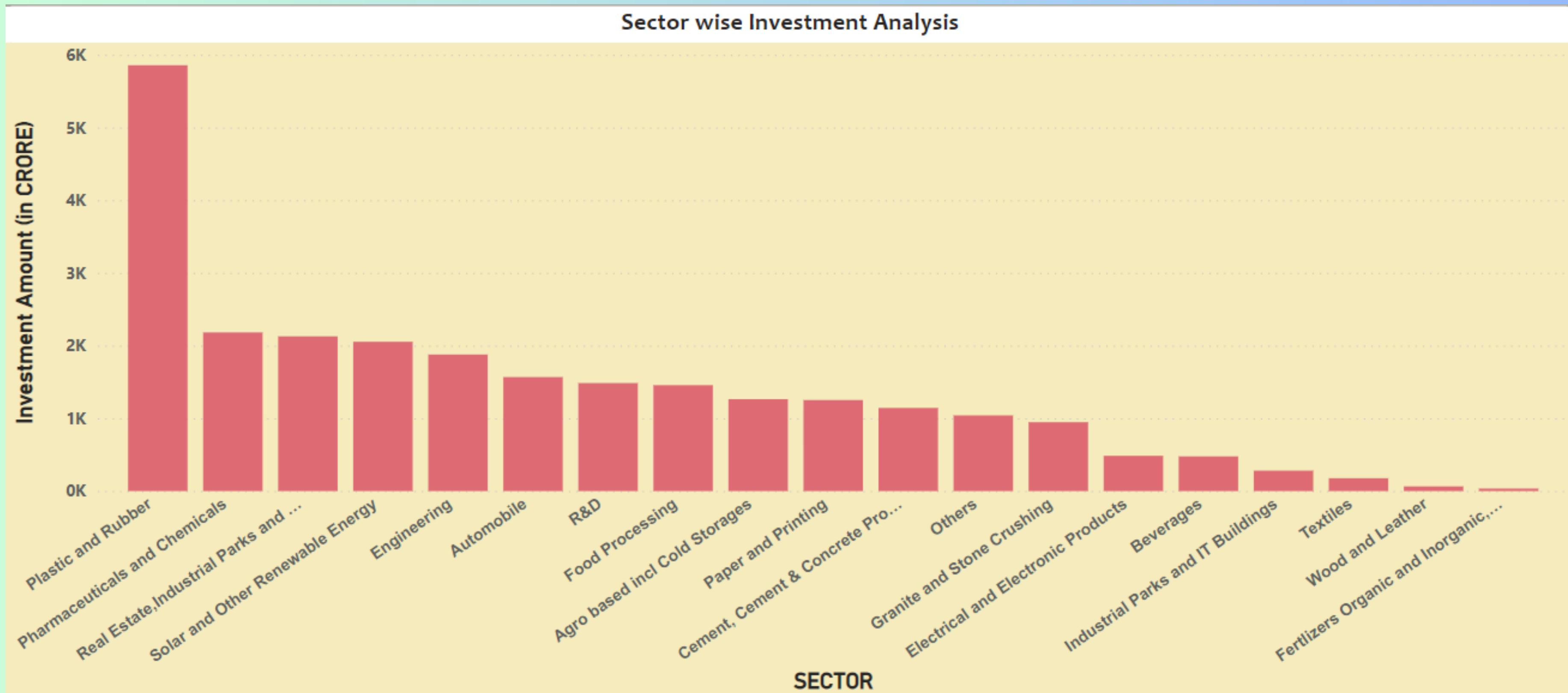
- It is a state government initiative in Telangana, India that came into effect on 12th June, 2015.
- It is designed to facilitate the ease of doing business and promote industrial growth in the state.
- It involves a single-window clearance system, which aims to simplify the application and approval procedure, making it faster and more efficient for businesses.
- The system integrates various government departments involved in granting clearances.
- The main highlight of this initiative is that the time limit set for each approval varies from 1 day to a maximum of 30 days depending on the complexity of the approval.

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

Analysis

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

8



Analysis 8

The graph illuminates a multitude of insights that unveil the prevailing insights in a compelling manner.

INSIGHT - 1: Diversified Investment:

The presence of investments in sectors like plastics, pharmaceuticals, real estate, renewable energy, and engineering suggests that the state's economy is not solely reliant on a single industry, reducing vulnerability to economic fluctuations.

INSIGHT - 2: Industrial Growth and Innovation:

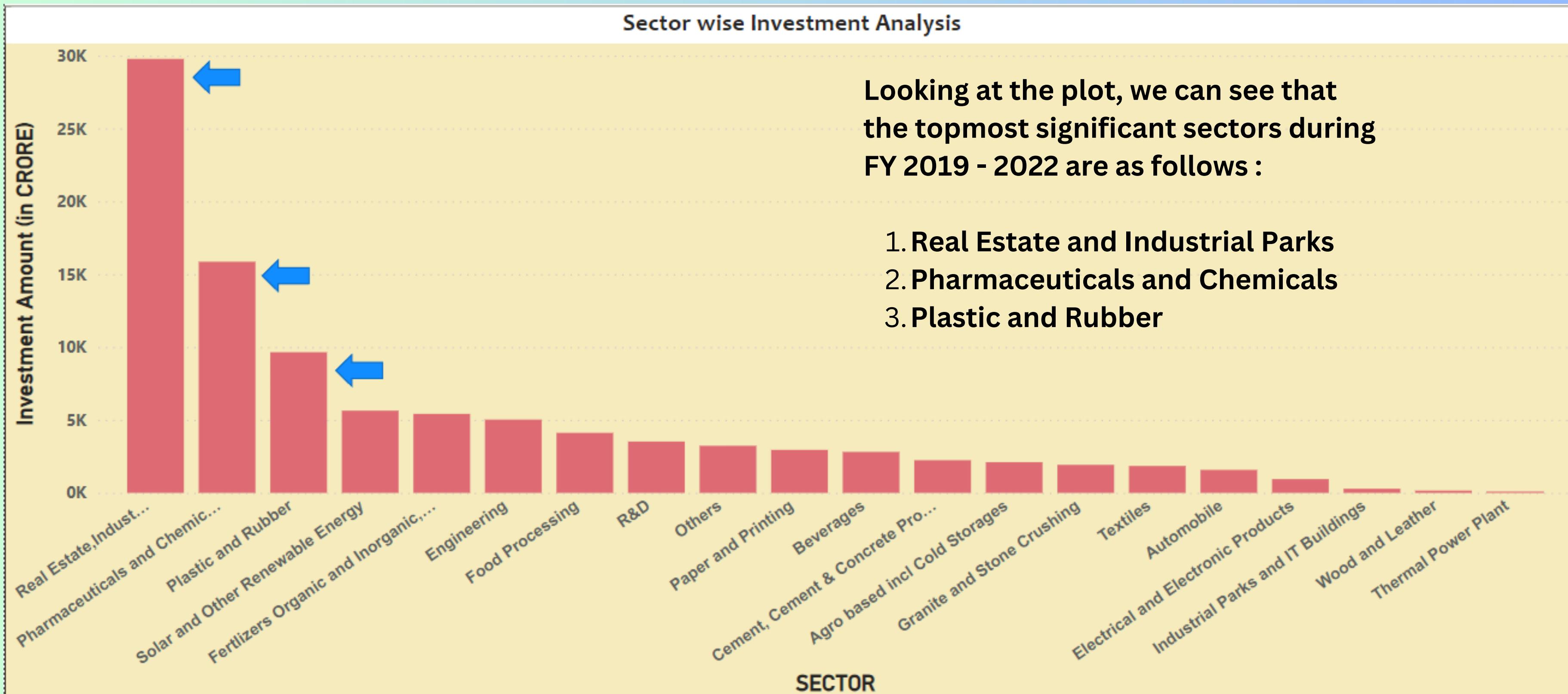
The investments in these sectors are often associated with manufacturing, research, and technological advancements, suggesting that Telangana is positioning itself as a hub for innovation-driven industries.

INSIGHT - 3: Sustainable Development:

The significant investments in solar and other renewable energy highlight that Telangana is not only focused on traditional industrial sectors but also recognizes the importance of transitioning towards cleaner and more environmental-friendly energy sources.

Analysis List down the top 3 districts that have attracted the most significant sector
9(A) investments during FY 2019 to 2022.

Analysis 9(A) List down the top 3 districts that have attracted the most significant sector investments during FY 2019 to 2022.

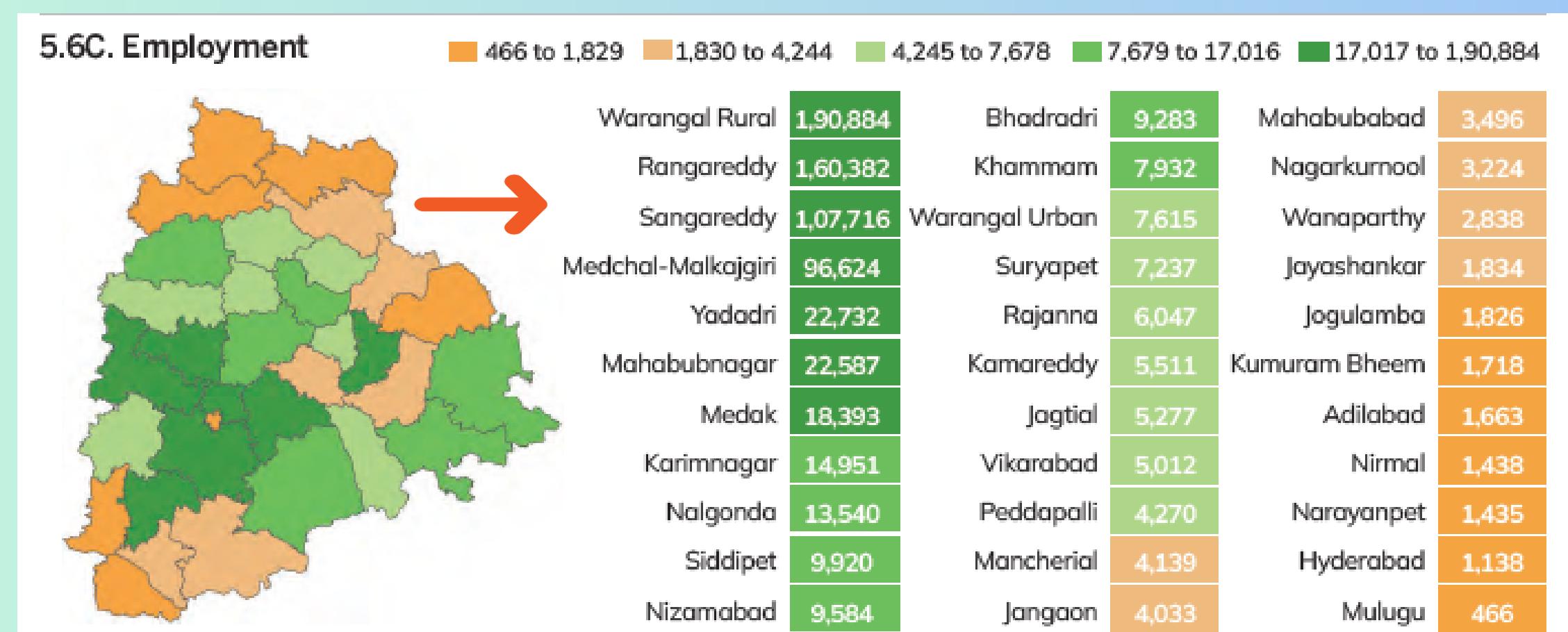
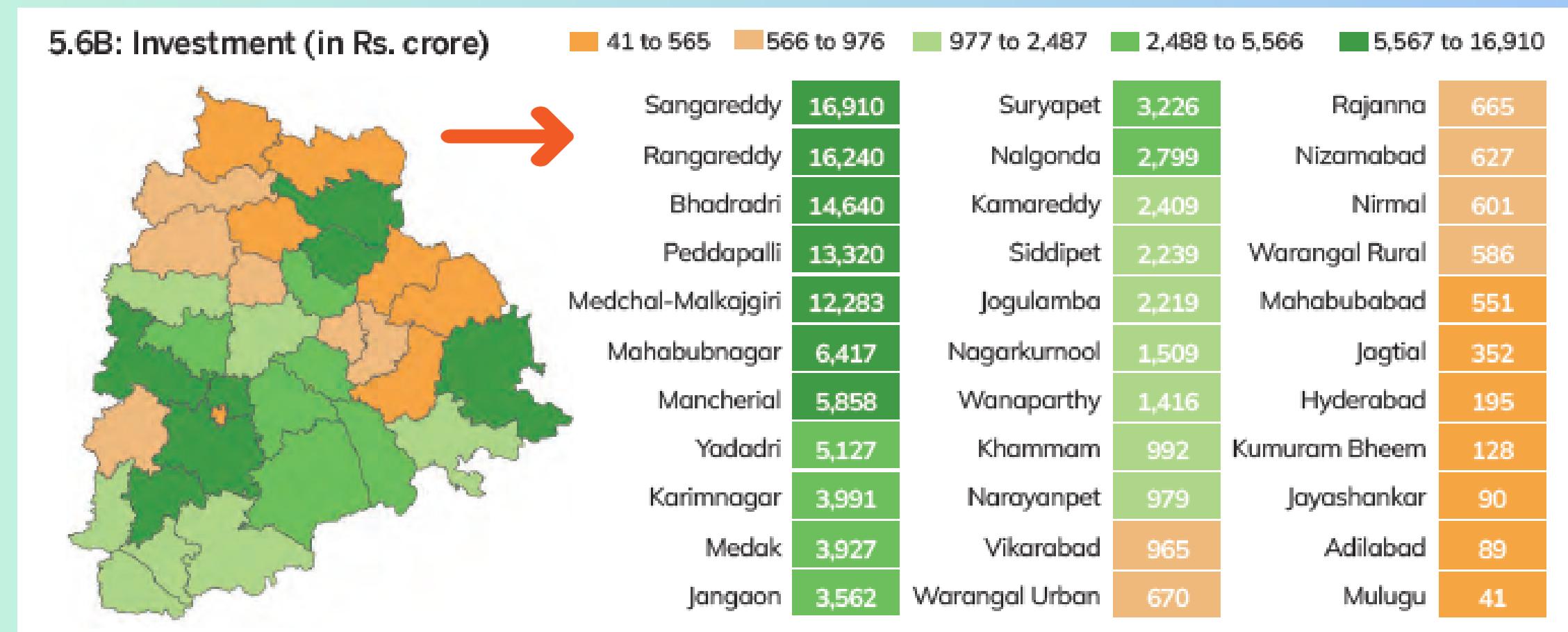


Analysis The presented table outlines the top three districts that have garnered the most substantial sector-specific investments spanning FY 2019 to 2022.

9(A)

DISTRICT	SECTOR	Total Investment (in CR)
Rangareddy	Real Estate, Industrial Parks and IT Buildings	28.97K
Peddapalli	Fertilizers Organic and Inorganic, Pesticides, Insecticides, and Other Related	5.25K
Rangareddy	Plastic and Rubber	4.99K
Medchal_Malkajgiri	Pharmaceuticals and Chemicals	4.00K
Sangareddy	Pharmaceuticals and Chemicals	3.55K
Sangareddy	Plastic and Rubber	3.43K

Analysis 9(A) According to the data in "Telangana Socio-Economic Outlook 2022", the following are the district wise investments and employment from 2015 to January 2022 as per TS-iPASS



Analysis What factors could have led to the substantial investments in these
9(B) particular districts?

Analysis

9(B) What factors could have led to the substantial investments in these particular districts?

FACTOR - 1: Strategic District Selection:

The selection of these districts, namely Rangareddy, Sangareddy, and Medchal Malkajgiri, as recipients of significant sector investments, is because these regions possess distinct advantages that render them compelling destinations for nurturing economic expansion.

FACTOR - 2: Infrastructure Hub:

The availability of industrial zones, transportation networks, and other facilities empower the establishment and growth of businesses in these areas.

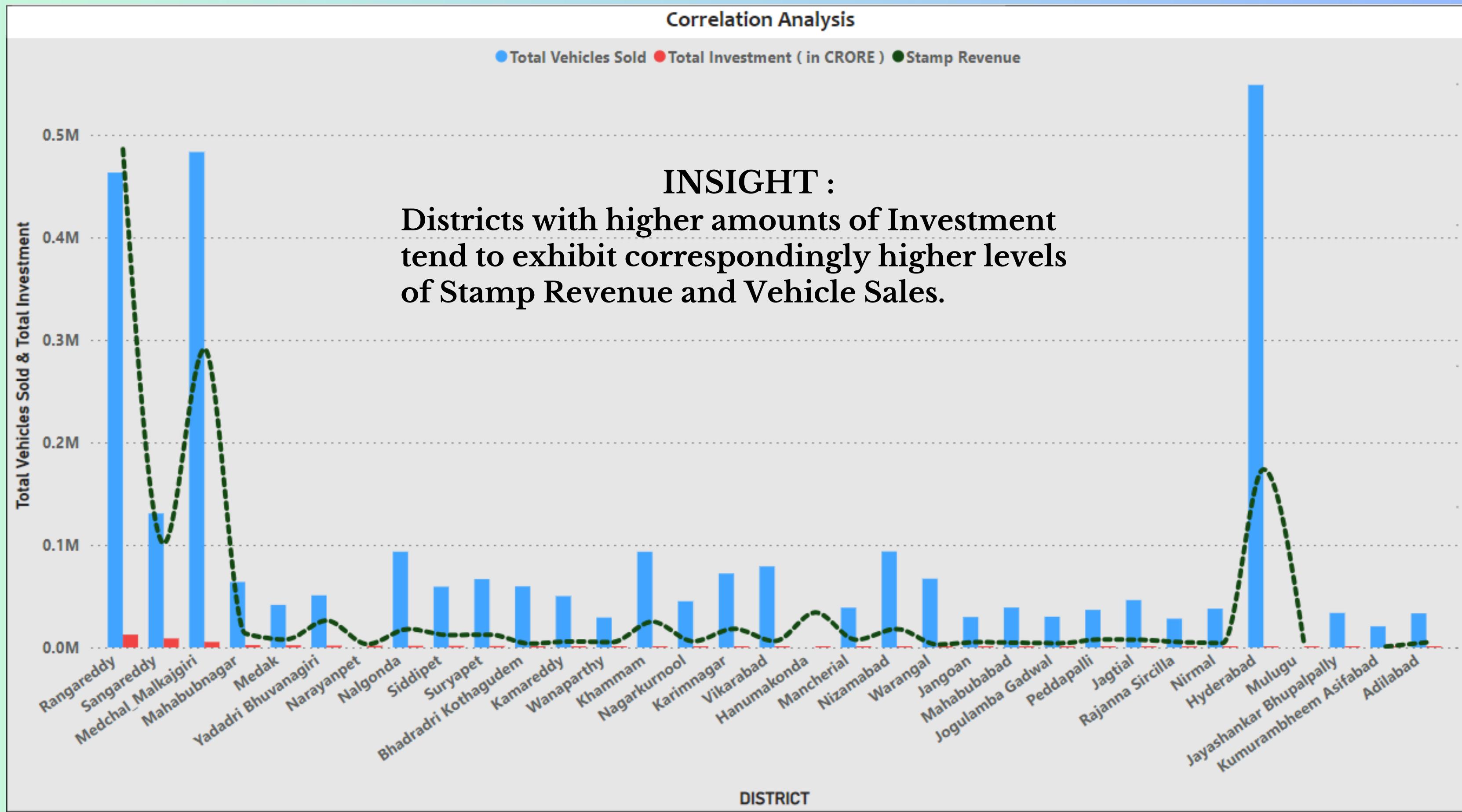
FACTOR - 3: Regional Job Opportunities:

Significant sector investments in these districts lead to increased job opportunities for the local population as one of the districts (Medchal Malkajgiri) is the 2nd most populous district of the state.. This, in turn, can lead to improved standards of living and economic well-being.

Analysis 10 Is there any relationship between district investments, vehicles sales and stamps revenue within the same district between FY 2021 and 2022?

Analysis 10

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



Analysis 10

INSIGHT :

Notably, the districts of Rangareddy, Sangareddy, and Medchal Malkajgiri exhibit this pattern consistently across all three categories: Total Investments, Stamp Revenue, and Vehicle Sales.

On the other hand, the district Hyderabad demonstrate strength in two out of three categories

District	Total Investment (in CRORE)	Stamp Revenue	Total Vehicles Sold
Rangareddy	12.48K	70.7bn	463K
Sangareddy	8.78K	14.8bn	131K
Medchal_Malkajgiri	5.36K	42.3bn	483K
Mahabubnagar	2.29K	2.0bn	64K
Medak	2.09K	1.1bn	41K

District	Total Investment (in CRORE)	Stamp Revenue	Total Vehicles Sold
Rangareddy	12.48K	70.7bn	463K
Medchal_Malkajgiri	5.36K	42.3bn	483K
Hyderabad	0.04K	25.3bn	549K
Sangareddy	8.78K	14.8bn	131K
Hanumakonda	0.20K	5.0bn	

District	Total Investment (in CRORE)	Stamp Revenue	Total Vehicles Sold
Hyderabad	0.04K	25.3bn	549K
Medchal_Malkajgiri	5.36K	42.3bn	483K
Rangareddy	12.48K	70.7bn	463K
Sangareddy	8.78K	14.8bn	131K
Nizamabad	0.13K	2.6bn	94K

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

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

During the fiscal year 2021-2022, a substantial cumulative investment of ₹43,650 crore was made across diverse sectors, encompassing all districts of the state of Telangana.

DISTRICT	Total Investment (in CR)
Rangareddy	12.48K
Sangareddy	8.78K
Medchal_Malkajgiri	5.36K
Mahabubnagar	2.29K
Medak	2.09K
Yadadri Bhuvanagiri	1.76K
Narayanpet	1.60K
Nalgonda	1.54K
Siddipet	1.52K
Suryapet	1.36K
Bhadradri Kothagudem	1.02K
Kamareddy	0.99K
Wanaparthy	0.40K
Khammam	0.34K
Nagarkurnool	0.29K
Karimnagar	0.22K
Vikarabad	0.21K
Hanumakonda	0.20K
Mancherial	0.19K
Nizamabad	0.13K
Warangal	0.12K
Jangoan	0.12K
Total	43.65K

Analysis Nevertheless, when we organize the most significant investments within
11 specific sectors across multiple districts and amalgamate them, we get the
following Top 3 sectors :

1 - Pharmaceuticals and Chemicals

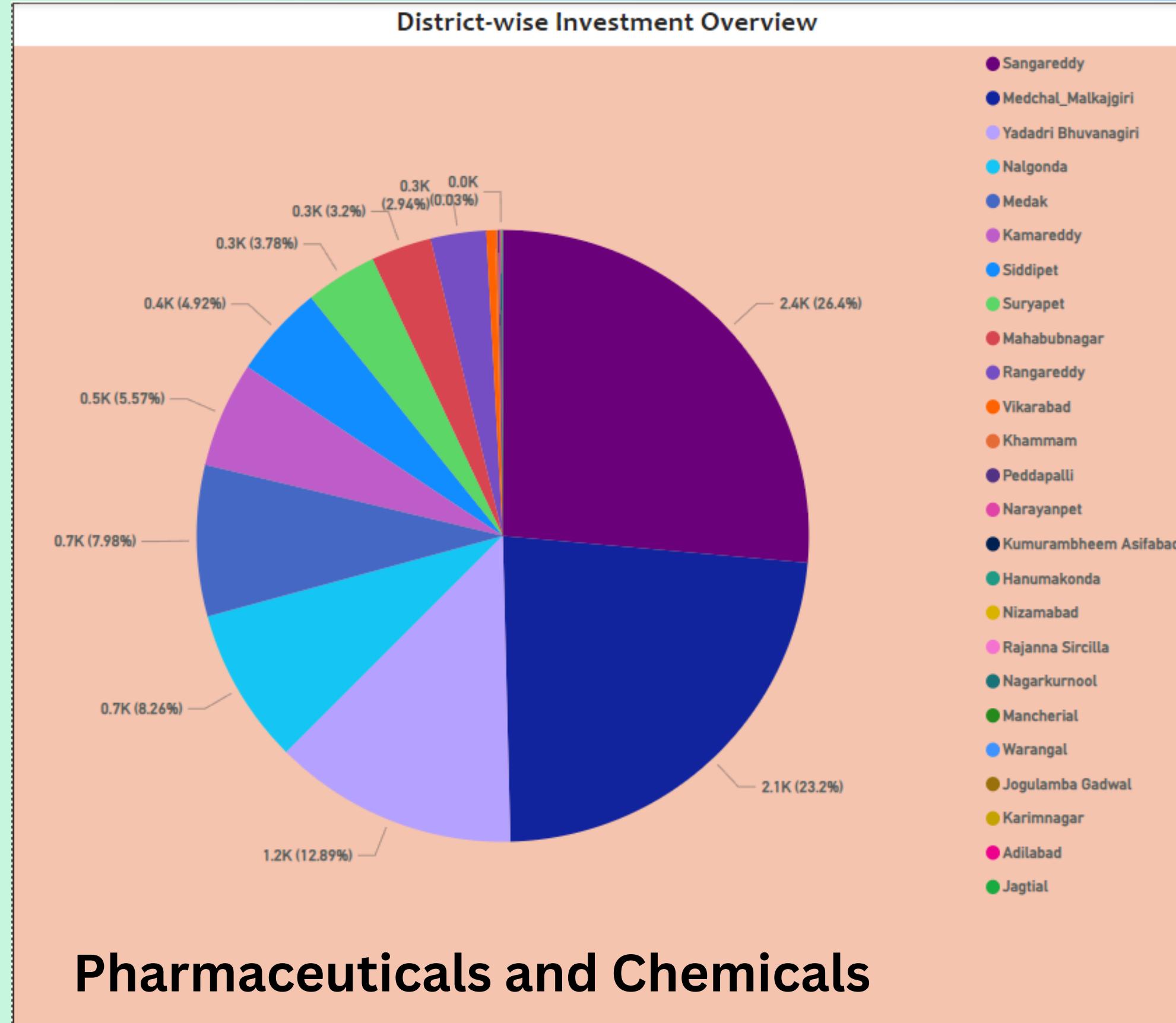
2 - Plastic and Rubber

3 - Engineering

And, the resulting visualization takes shape through the following pie charts :

Analysis

11



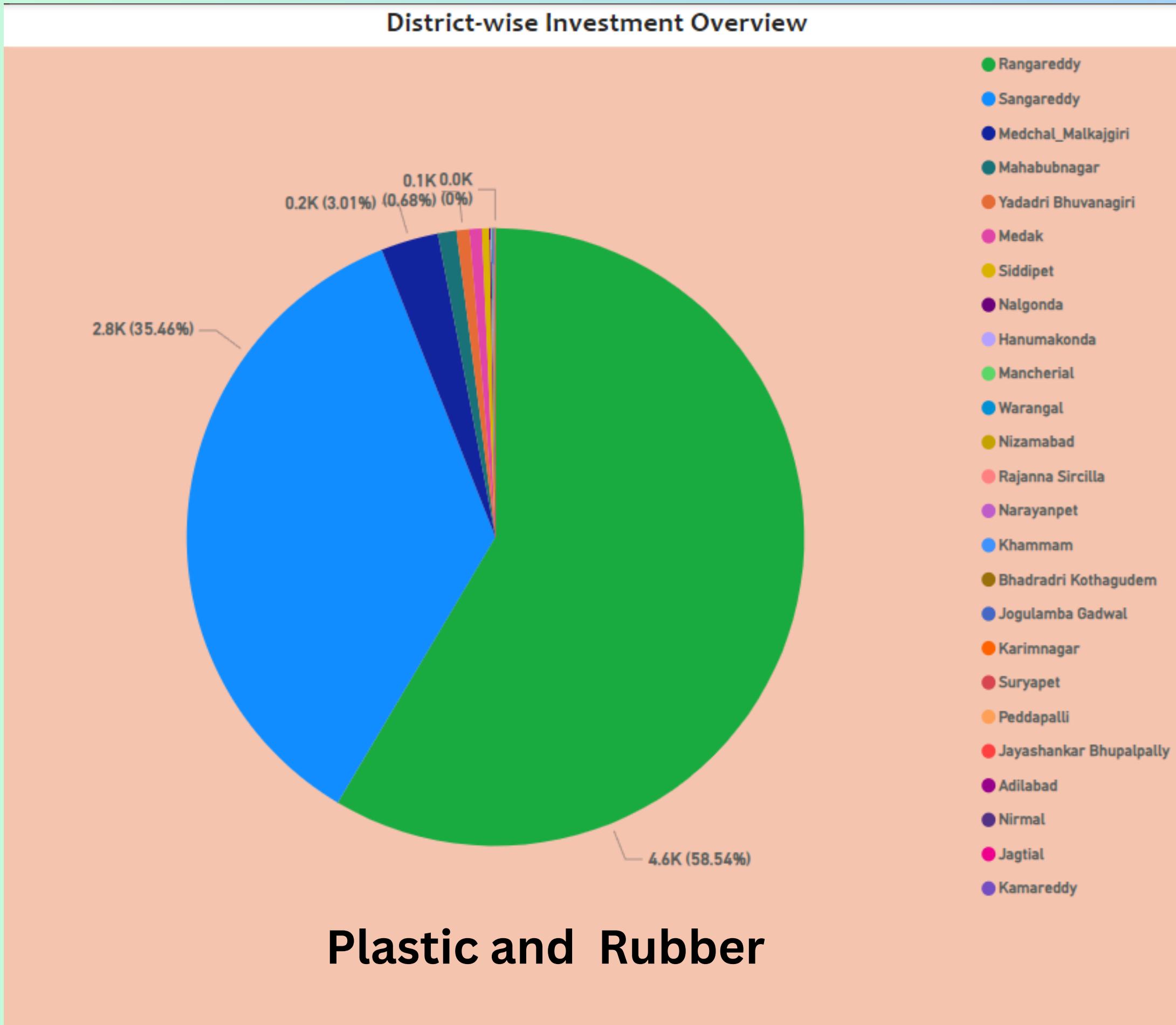
INSIGHT

In an impressive feat, this sector has garnered the highest investment from 75% of all districts within Telangana.

Remarkably, the investment amount constitutes around 21% of the total invested capital during the fiscal years 2021 and 2022.

Analysis

11



INSIGHT

In a remarkable feat, this particular sector has garnered the 2nd highest investment from three-quarters (75%) of all districts in Telangana.

This noteworthy investment figure accounts for approximately 19% of the total investment undertaken during the period spanning FY 2021 to 2022.

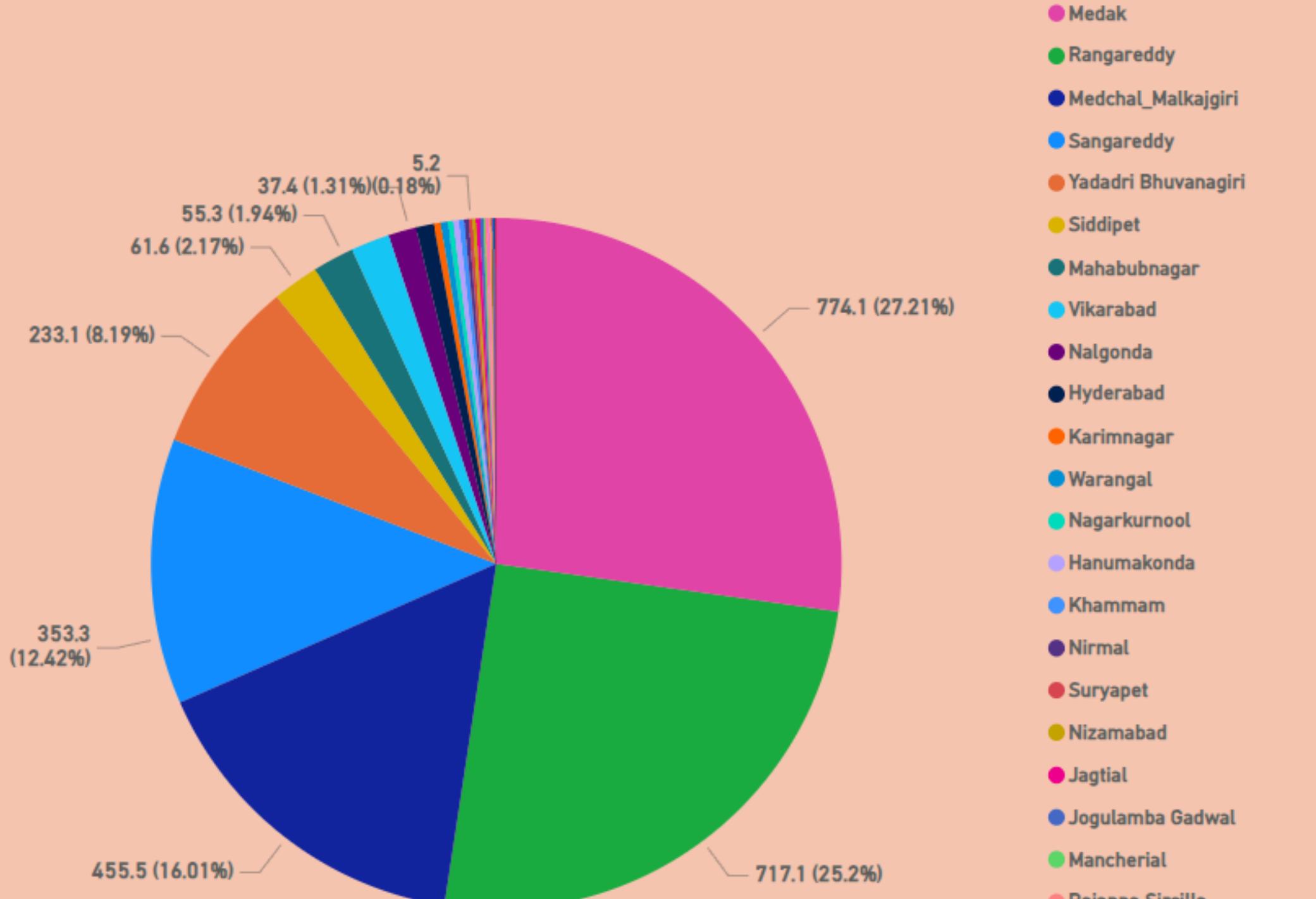
Notably, the lion's share of investments stems from the districts of Rangareddy and Sangareddy, collectively contributing a substantial 93% of the overall investment in this sector.

Analysis

11

District-wise Investment Overview

Engineering



INSIGHT

In an impressive feat, this sector has garnered investments from a remarkable 94% of Telangana's total districts.

Notably, it boasts the largest district participation, with approximately 6.5% of the cumulative investment for the fiscal year 2021 to 2022 originating from multiple districts within this sector.

Additionally, this sector secures the distinction of securing the third-highest investment during the mentioned fiscal year.

Analysis

11

Through a visit to the website www.invest.telangana.gov.in, a wealth of detailed insights awaits, offering a comprehensive overview of the top three sectors that have garnered significant investment. By perusing the website, one can delve into a comprehensive understanding of these sectors, gaining a profound perspective on their respective standing and contributions.

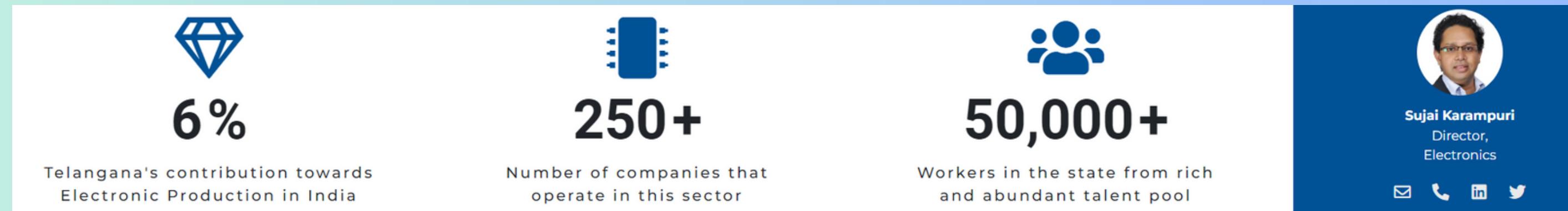
Pharmaceuticals & Chemicals



Plastic & Rubber



Engineering



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

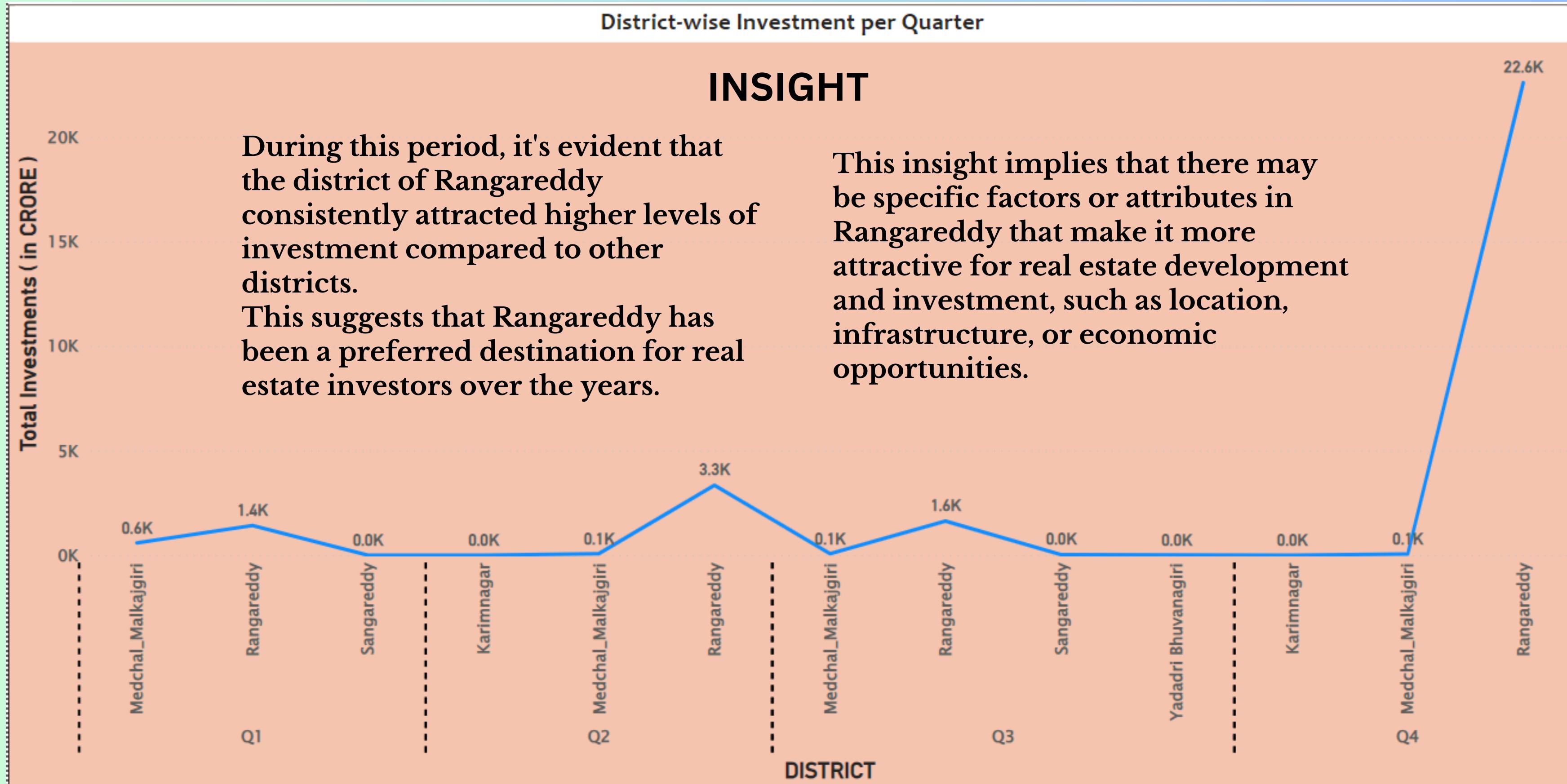
Here, we can see a consistent trend in the Real Estate Sector for the fiscal years 2019 to 2022.

INSIGHT

During this period, it's evident that the district of Rangareddy consistently attracted higher levels of investment compared to other districts.

This suggests that Rangareddy has been a preferred destination for real estate investors over the years.

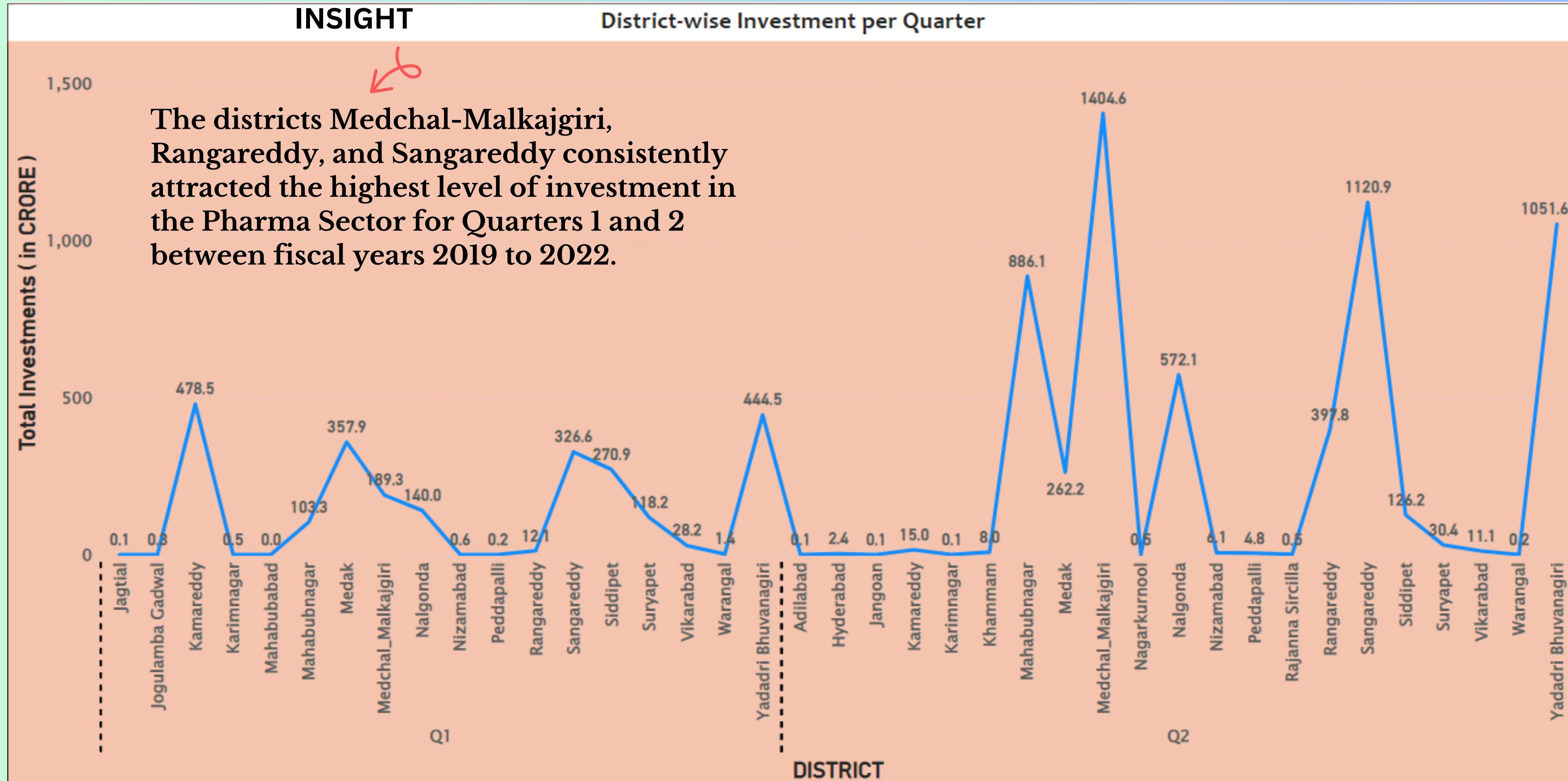
This insight implies that there may be specific factors or attributes in Rangareddy that make it more attractive for real estate development and investment, such as location, infrastructure, or economic opportunities.



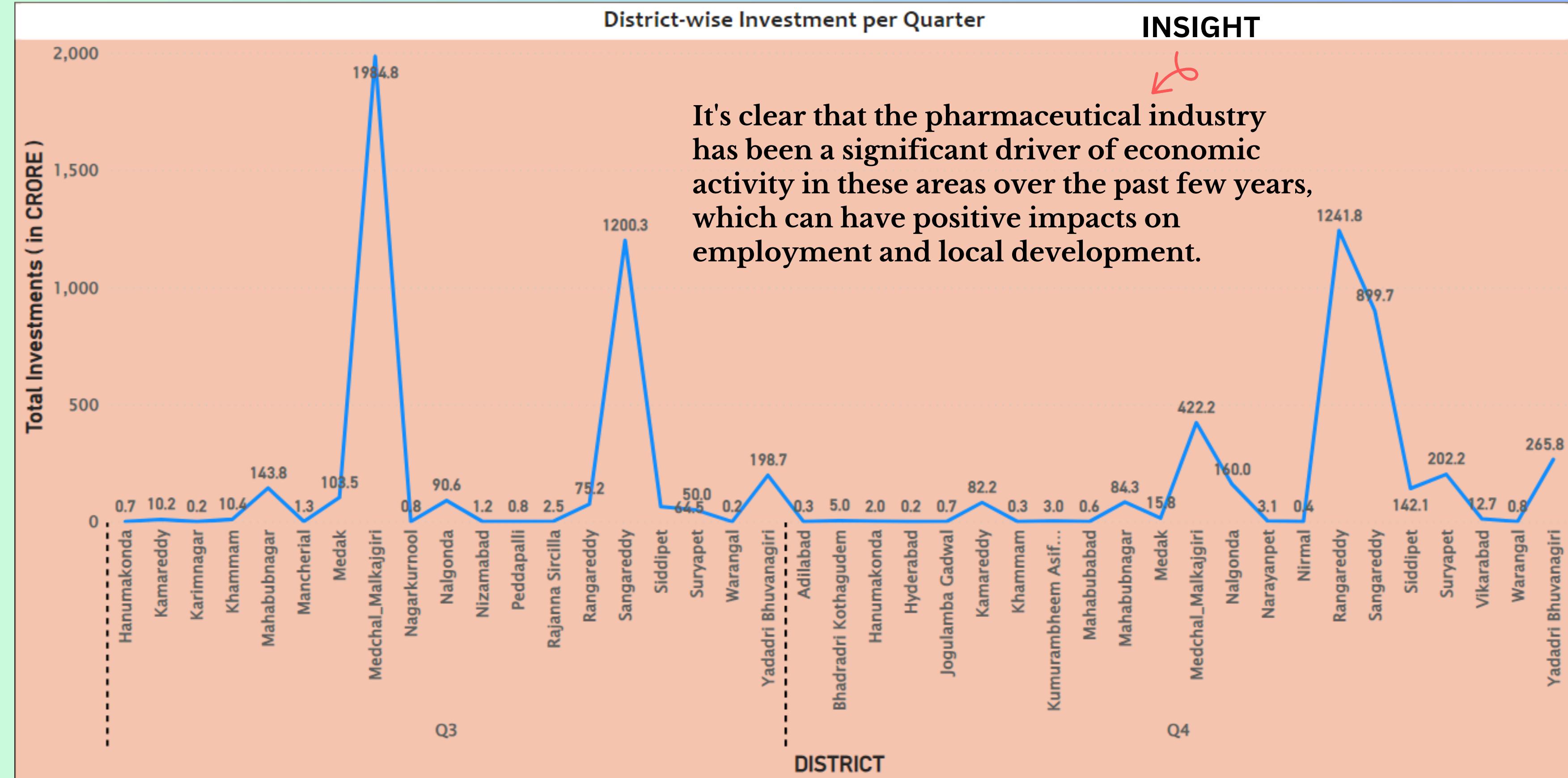
Analysis

12

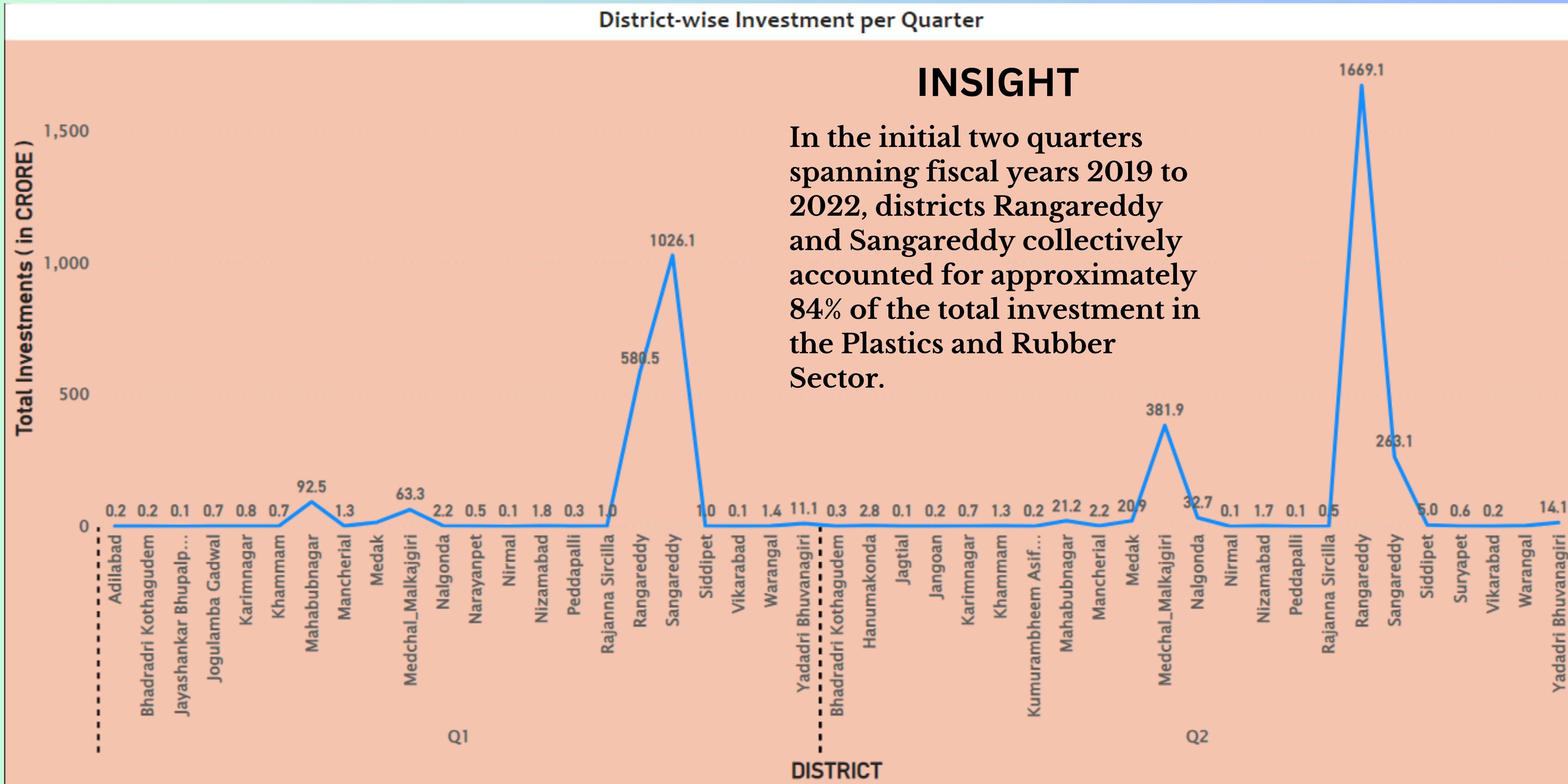
Here, we can see a consistent trend
in the Pharma Sector for Quarter 1
and 2 of fiscal years 2019 to 2022.



Similarly, for Quarters 3 and 4 of fiscal years 2019 to 2022.

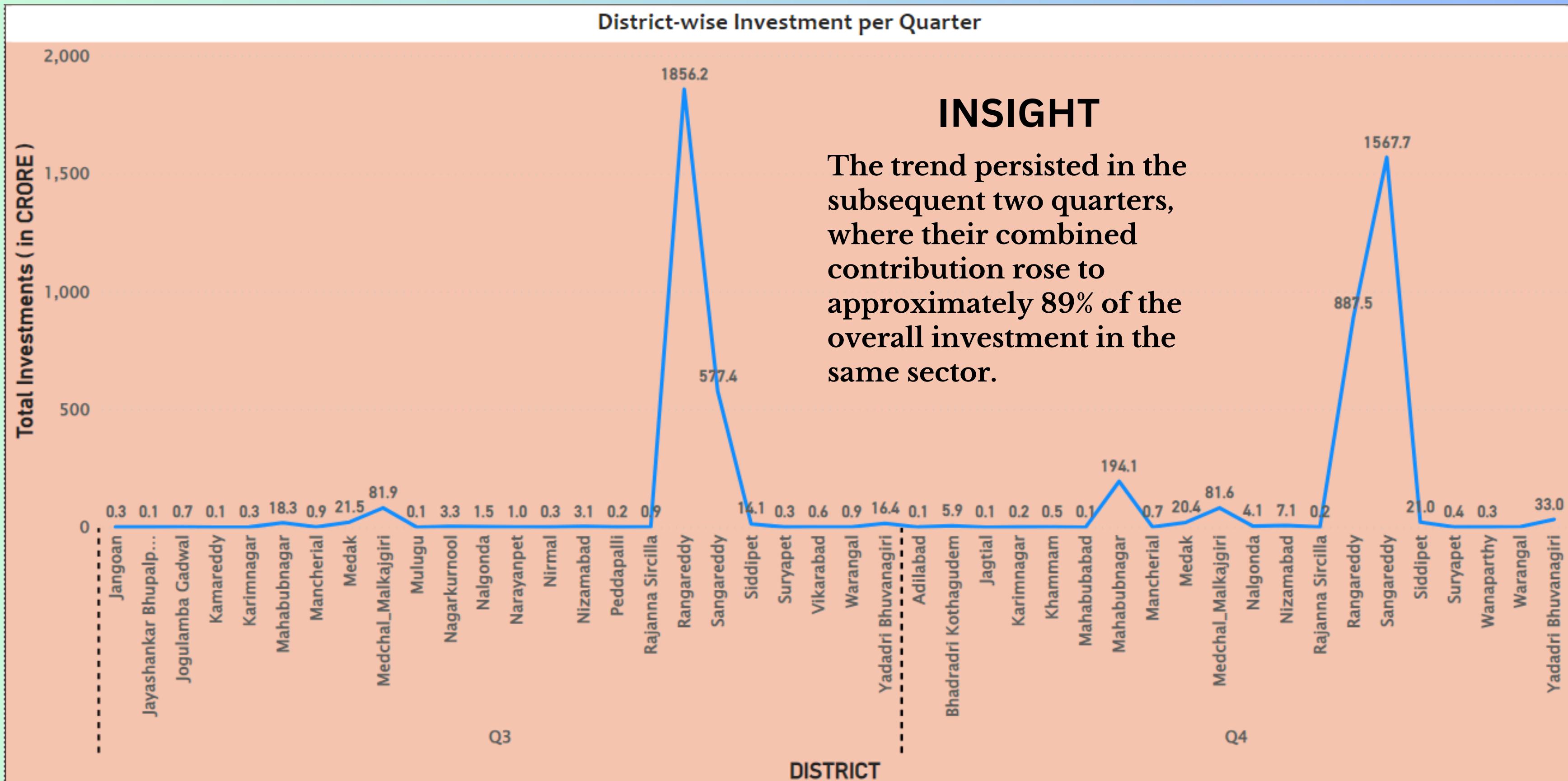


Here, we can see a consistent trend
in the Real Estate Sector for the
fiscal years 2019 to 2022.



Analysis

12



SECONDARY AREA

Additional Insights

Additional insights go beyond the surface and provide a deeper understanding. They offer new ways to look at things and help make smarter decisions for the project.

By offering additional insights, a richer context and a more comprehensive view of the project can be seen, which can lead to improved strategies, outcomes, and problem-solving approaches.



Analysis : SA(1) - SA(5)

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

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

Following are the Top 5 districts that have bought commercial properties :



HYDERABAD

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In a recent report by Knight Frank India, it has been revealed that **Hyderabad** has emerged as the top real estate market in the country, witnessing significant growth in residential sales. The city experienced a remarkable 5% year-on-year (YoY) increase in residential sales, surpassing the performance of other major cities such as **Mumbai** and **Bengaluru**, which recorded declines of 8% and 2% YoY, respectively.

Rising Demand and Price Appreciation:

Hyderabad's real estate market has been flourishing, with residential prices in the city showing an impressive YoY growth of 10%, the highest among all markets. This surge in prices can be attributed to the sharp rise in land prices, making Hyderabad an enticing destination for both investors and end-users.

Source: timesproperty.com

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



RANGAREDDY



MEDCHAL-MALKAJGIRI

Home sales registrations in Medchal-Malkajgiri district were recorded at 46% followed by Rangareddy district at 36%

November 10, 2022 04:06 pm | Updated 05:47 pm IST - HYDERABAD

Source: thehindu.com

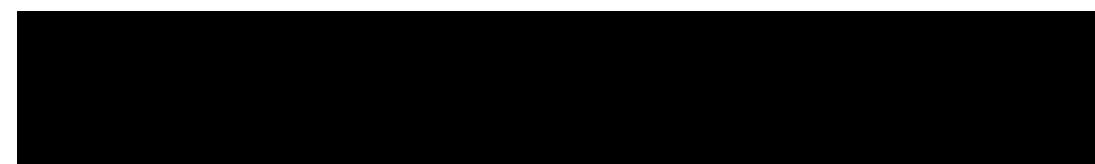
Analysis What are the top 5 districts to buy commercial properties in Telangana?
SA(1) Justify your answer.



WARANGAL URBAN

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The urban area of Warangal is rapidly expanding. This is increasing demand in Warangal's upscale regions. After the city successfully passes the second list of proposed Smart Cities, the Greater Warangal Smart City Corporation Limited will oversee the implementation process.

The Greater Warangal Municipal Corporation and Kakatiya Urban Development Authority (KUDA) have ambitious plans to expand the metropolis with a focus on the needs for the next 50 years. This will include the development of mega townships, multi-level car parking projects, smart motorways, rooftop solar projects, ropeway projects, and many more.

Source: timesproperty.com

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

5

KARIMNAGAR

- Examining Karimnagar district's economic landscape reveals a robust fusion of agricultural and industrial sectors that significantly bolster its economic trajectory.
- This symbiotic relationship between agriculture and industry has emerged as a key driver of the district's economic prosperity.
- Karimnagar district's allure for commercial investments is underpinned by several key factors such as its strategic geographic location, characterized by advantageous positioning and accessibility, which offers a competitive edge for businesses.
- The district's well-established connectivity networks further enhance its appeal, ensuring seamless integration into broader economic frameworks.
- Moreover, the presence of a growing consumer market amplifies the potential for businesses to flourish, making Karimnagar district an immensely attractive destination for commercial ventures.

Source: google.com

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

SA(2) Can we quantify the impact of these policies using available data?

Analysis What significant policies or initiatives were put into effect to enhance economic growth, investments, and employment in Telangana by the current government?
SA(2a) Can we quantify the impact of these policies using available data?

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TS-iPASS:

The Telangana State Industrial Project Approval and Self-Certification System (TS-iPASS) was launched to simplify the process of obtaining approvals and clearances for setting up industries.

This streamlined process aimed to attract more investments and create job opportunities.

Textile and Apparel Policy:

The government introduced a policy to promote the textile and apparel sector in the state. It aimed to enhance the competitiveness of this sector by providing incentives, infrastructure support, and skill development opportunities.

Electronics Manufacturing:

The government's policy on electronics and hardware manufacturing aimed to establish Telangana as a hub for electronics manufacturing. This initiative attracted investment from companies engaged in electronics manufacturing, which is closely related to the engineering sector.

Analysis SA(2a)

Domestic and Foreign investors are attracted to invest in Telangana State due to features of TS-iPASS such as deemed approvals, time-bound sanctions of permits, etc. The impact of TS-iPASS on industrial growth is analyzed in terms of the number of industries, investments, and employment as compared to the pre-TS-iPASS.

The effects of TS-iPASS are evident from both the feedback received and the growth rate featured in The Federation of Telangana and Andhra Pradesh Chambers of Commerce and Industry's TS-iPASS report.

G.Rakesh

*Sri Laxmi Ginning & Pressing Factory
Adilabad*

The Telangana State has come up with a very good policy which granted the clearances, sanctions and approvals within 15 days. The entire process was very smooth and hurdle-free and I didn't have to take any permits other than those under TS-iPASS nor did I have to pay multiple visits to any department. I chose to set up my unit in Adilabad as it is firstly my domicile and there is also availability of raw materials, proximity to market, availability of infrastructure and finance. The unit has also begun operations. I am very satisfied with the support extended by Industries Department.

TS-IPASS

Policy Effect

K. Jagadesswar

*Sumangali Rice Mill
Talakondapalem, Ranga Reddy Dist*

TS-iPASS is the most effective policy as it granted the clearances, sanctions and approvals within 10-15 days. There was no difficulty in getting the sanctions and approvals, and did not have to visit any departments. I have chosen Talakondapalle for setting up the Rice Mill as raw material is available, proximity to market and infrastructure facilities. I congratulate the Telangana Government for coming out with TS-IPASS and thank the department officials for their support and assistance in getting the required permits within a short time.

Year	2017-18	2018-19	2019-20	2020-21	2021-22
Growth rate	11.3	12.4	13.5	14.5	15.6

Growth Rate (Trend line) of industrial sector since 2010-11



The trajectory of growth is clearly demonstrating a consistent pattern of expansion.

Projections indicate that this growth trend is poised to continue, with an anticipated 15% surge by the fiscal year 2022, largely attributable to the favorable influence of TS-iPASS.

The affirmative outcomes attributed to TS-iPASS highlight a compelling need to prioritize the enhancement of District Industry Centres.

This strategic imperative is essential for effectively realizing the targeted outcomes and ensuring the fulfillment of our objectives.

Analysis SA(2a)

During the fiscal years 2019 and 2020, the Textile industry witnessed an investment of approximately 1500 crores INR.

However, an intriguing observation stems from the distribution of this investment across different districts, as depicted in the accompanying pie chart.

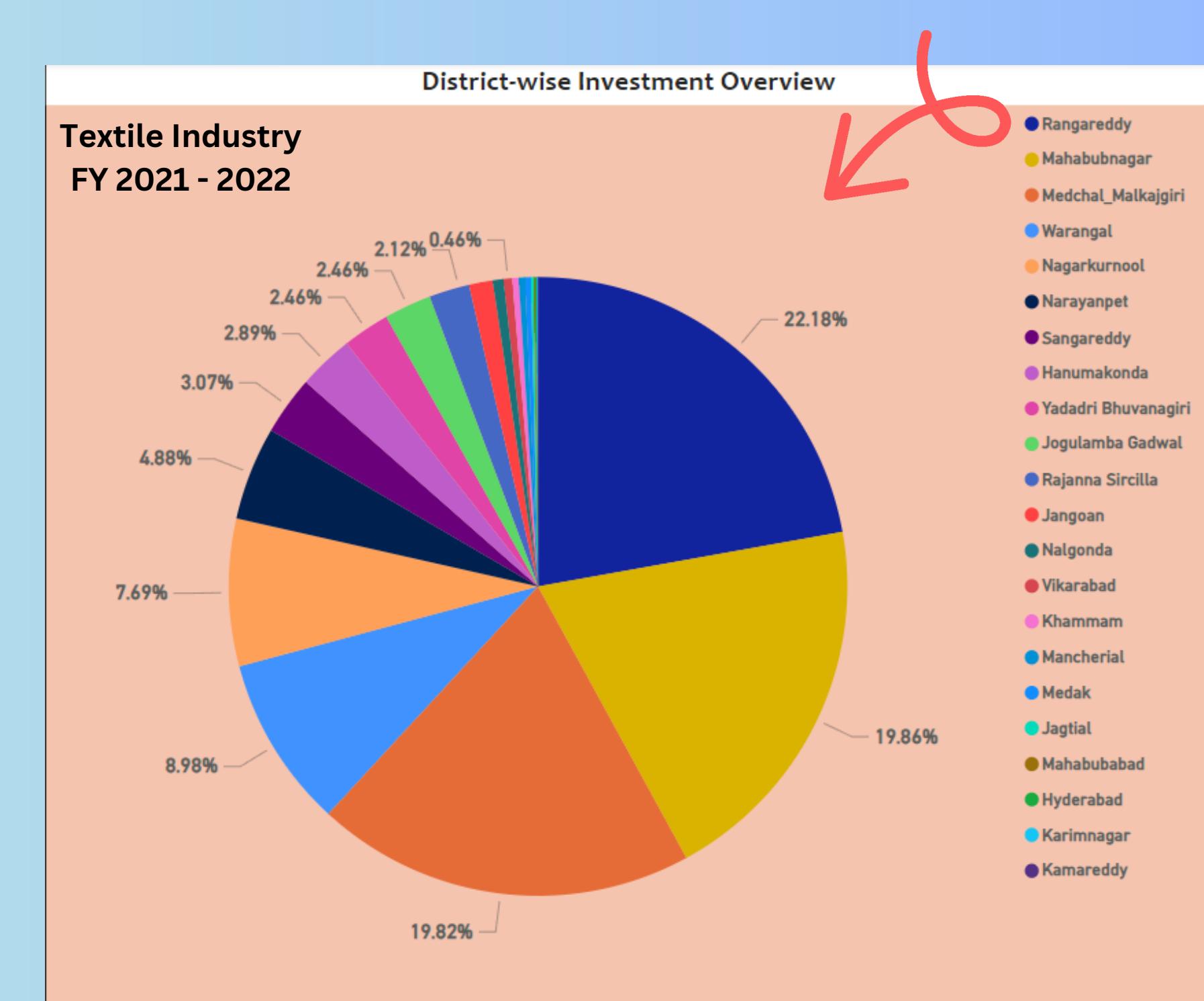
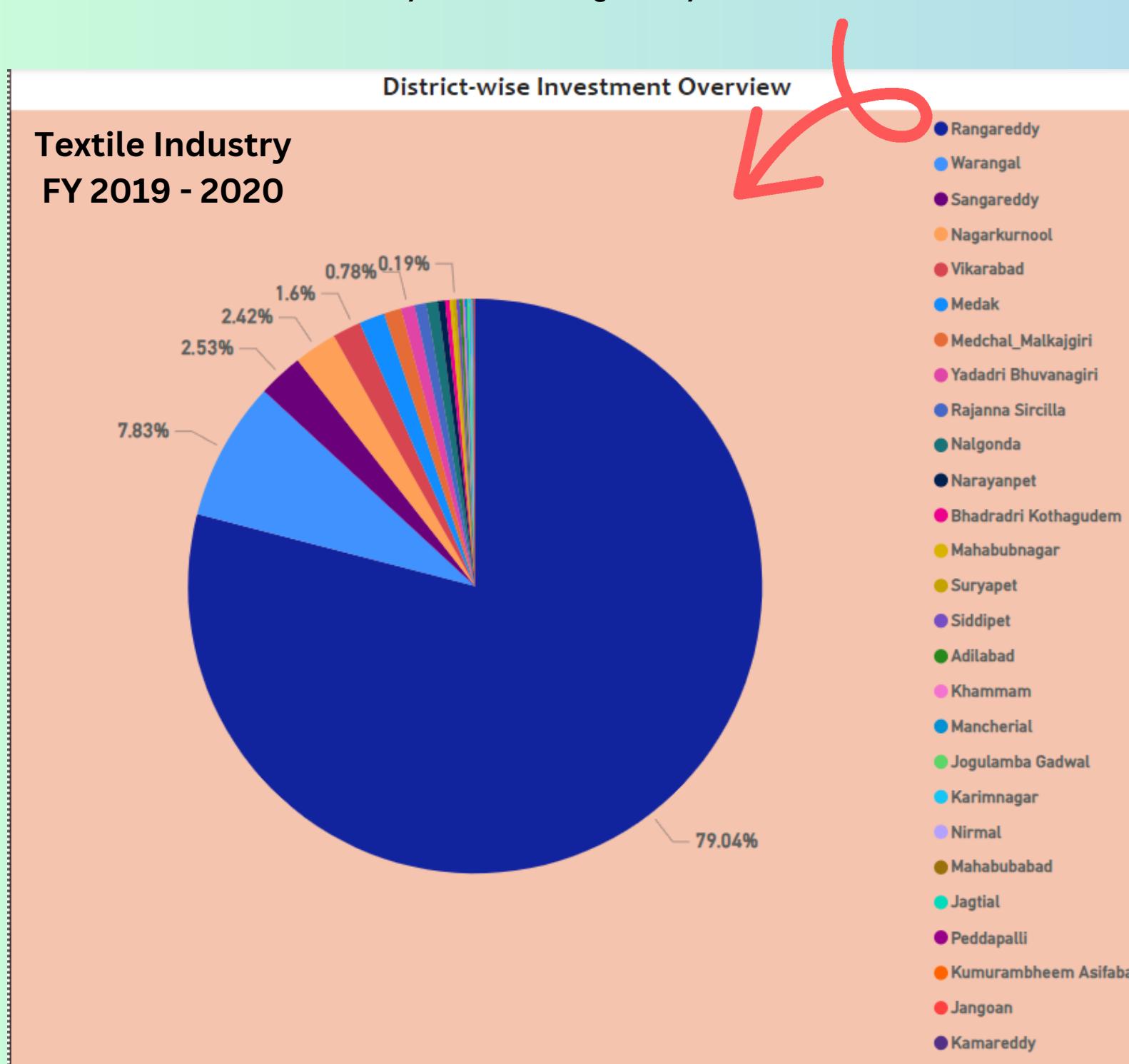
Remarkably, it becomes evident that the participation of districts was disproportionately low. Notably, a striking 80% of this total investment emanated solely from the Rangareddy district.

Textile Policy Effect

Shifting the focus to the subsequent period, spanning FY 2021 to 2022, a noteworthy trend emerges.

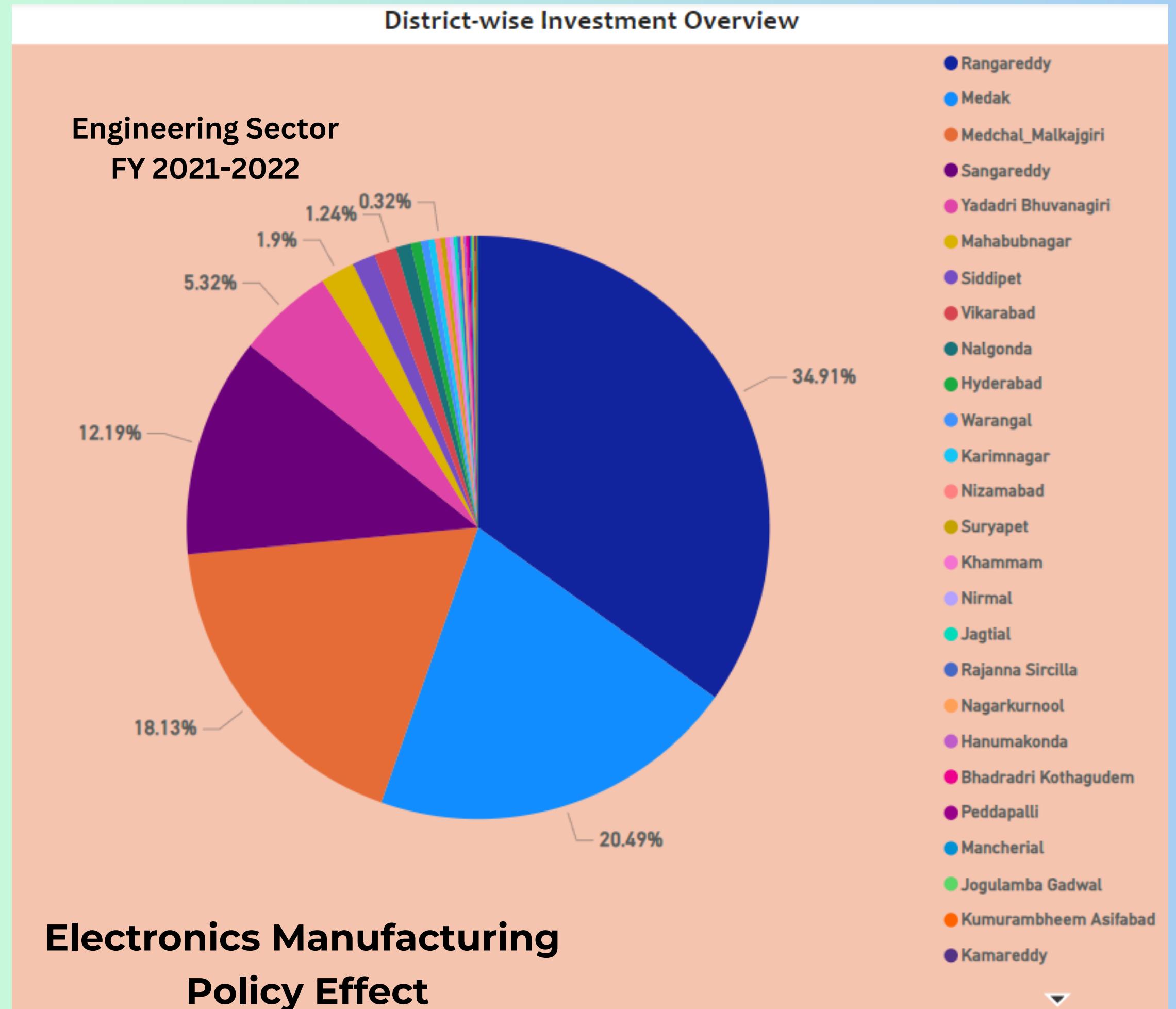
Despite a reduction in the overall investment in the textile industry during this time frame, an encouraging pattern unfolds as the district-wise contributions exhibit a marked increase.

This phenomenon strongly suggests a causal relationship between the implementation of the textile policy by the Telangana government and the observed positive upturn in district-level investment.



Analysis

SA(2a)



In an impressive feat, this sector has garnered investments from a remarkable **94%** of Telangana's total districts.

Notably, it boasts the largest district participation, with approximately **6.5%** of the cumulative investment for the fiscal year 2021 to 2022.

Additionally, this sector secures the distinction of securing the third-highest investment during the mentioned fiscal year.

Evidently, the government's strategic initiatives concerning electronics and hardware manufacturing are yielding remarkable results.

The primary objective of positioning Telangana as a prominent hub for electronics manufacturing is undeniably being realized.

Analysis SA(2b)

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IT and ITES Sector:

Hyderabad, known as "Cyberabad," has been a major IT and ITES hub in India. The government continued to support and promote this sector through various initiatives, which contributed significantly to employment and economic growth.

Pharma City:

The government proposed the establishment of a Pharma City near Hyderabad, dedicated to the pharmaceutical and life sciences industries.

This initiative aimed to attract investments and create employment opportunities in the pharmaceutical sector.

Skill Development:

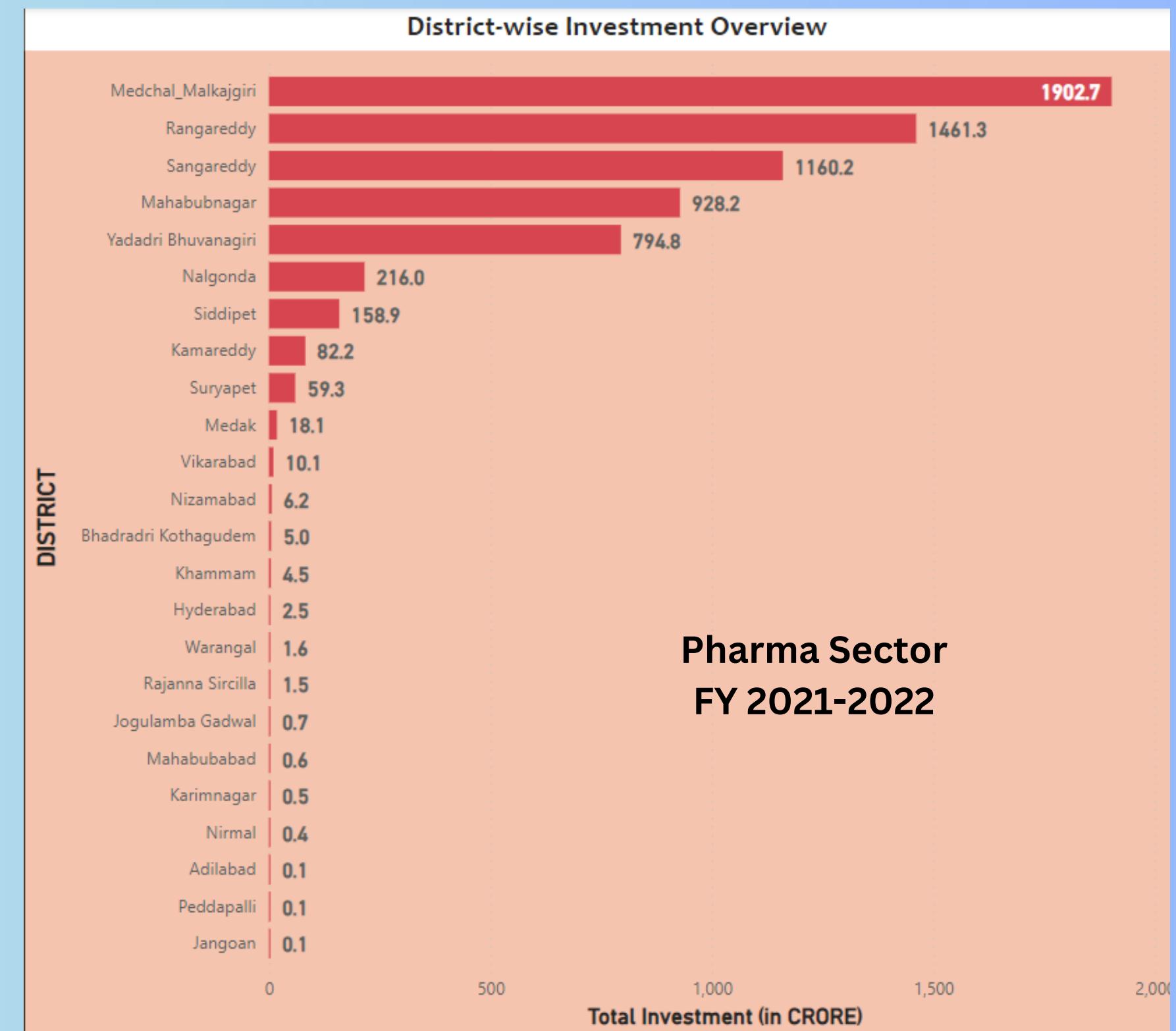
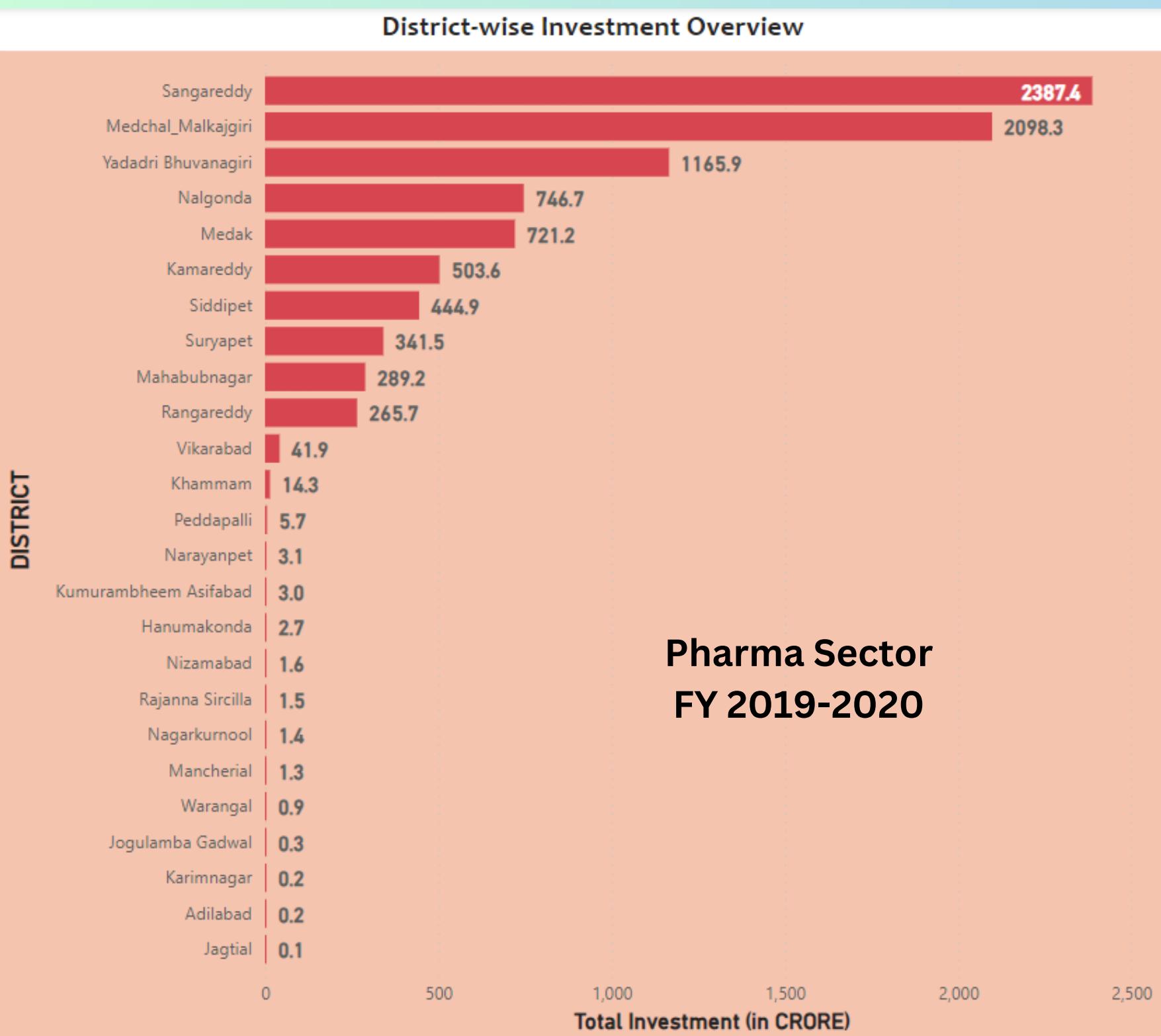
To address the skill gap in the engineering sector, the Telangana government initiated skill development programs in collaboration with industry partners.

These programs aimed to train the local workforce with the necessary skills for the engineering and manufacturing sectors.

Analysis SA(2b)

Demonstrating a remarkable achievement, the pharmaceutical sector has achieved a standout accomplishment by securing the highest investments from an impressive 75% of all districts within Telangana.

This trend holds true for both distinct sections of the fiscal timeline – spanning from FY 2019-2020 and extending through FY 2021-2022.



Notably, the most striking aspect is the substantial surge in investment figures between FY 2021 and 2022. This period witnessed an astounding increase of approximately 33% compared to the cumulative invested capital during the fiscal years 2019 and 2020, underscoring an exceptional growth trajectory within the pharmaceutical sector.

Analysis SA(2b)

Total Employees in Pharma Sector
FY 2019-2020

DISTRICT	Pharmaceuticals and Chemicals
Adilabad	9
Bhadradri Kothagudem	55
Hyderabad	30
Jangoan	5
Jogulamba Gadwal	9
Kamareddy	60
Karimnagar	12
Khammam	69
Mahabubabad	13
Mahabubnagar	1954
Medak	269
Medchal_Malkajgiri	6730
Nalgonda	1490
Nirmal	20
Nizamabad	28
Peddapalli	12
Rajanna Sircilla	81
Rangareddy	1500
Sangareddy	7963
Siddipet	479
Suryapet	449
Vikarabad	137
Warangal	47
Yadadri Bhuvanagiri	2093
Total	23514

This compelling data underscores the effectiveness of the government's initiative aimed at attracting investments and fostering employment opportunities within the pharmaceutical sector.

Total Employees in Pharma Sector
FY 2021-2022

DISTRICT	Pharmaceuticals and Chemicals
Adilabad	6
Hanumakonda	15
Jagtial	4
Jogulamba Gadwal	8
Kamareddy	2610
Karimnagar	8
Khammam	129
Kumurambheem Asifabad	10
Mahabubnagar	2181
Mancherial	8
Medak	2380
Medchal_Malkajgiri	7901
Nagarkurnool	70
Nalgonda	4252
Narayanpet	40
Nizamabad	23
Peddapalli	70
Rajanna Sircilla	24
Rangareddy	1687
Sangareddy	16373
Siddipet	1620
Suryapet	2200
Vikarabad	325
Warangal	65
Total	50327

Between the fiscal years 2019 and 2020, the pharmaceutical sector maintained a workforce of approximately 24,000 employees, accompanied by a total investment outlay of around 6800 crores.

In stark contrast, the subsequent period spanning from FY 2021 to 2022 witnessed a remarkable transformation in the pharmaceutical industry.

The workforce burgeoned by an impressive 114%, signifying a substantial augmentation in human resources.

Concurrently, the sector experienced a notable surge of approximately 45% in total investment, reflecting a heightened commitment to growth and development.

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

SUBJECT - Digital Evolution in Documentation



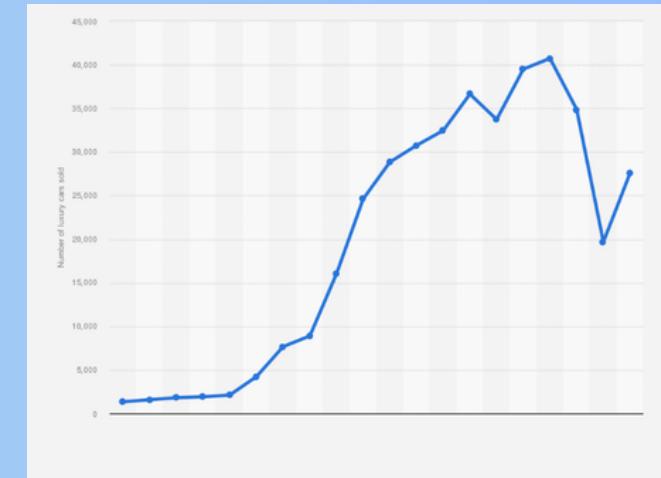
INSIGHT - 1:

Since the 3rd quarter of 2020, the generation of e-stamps has consistently outpaced the quantity of document registrations. This trend suggests a notable shift towards digital documentation and transaction processes. The higher e-stamp generation signifies a growing preference for streamlined, electronic methods, which underscores the accelerating transition from traditional paperwork to digital solutions in document management and official transactions.

RECOMMENDATION - 1:

To enhance public services and administrative efficiency, the implementation of robust e-governance initiatives is essential. Embracing digital change helps governments improve how they provide services, cut down on bureaucracy, and make things better for citizens. By strategically investing in e-governance, governments can not only streamline their operations but also catalyze employment opportunities in the burgeoning digital economy.

SUBJECT - Seasonal Spikes in Vehicle Sales



INSIGHT - 2:

A recurring trend emerges in the automotive sector, where vehicle sales experience a noteworthy upswing exclusively during the third quarter (October–November–December) of each fiscal year. This pattern indicates a consistent consumer behavior shift, highlighting the significance of Q3 as a pivotal period for the industry's performance.

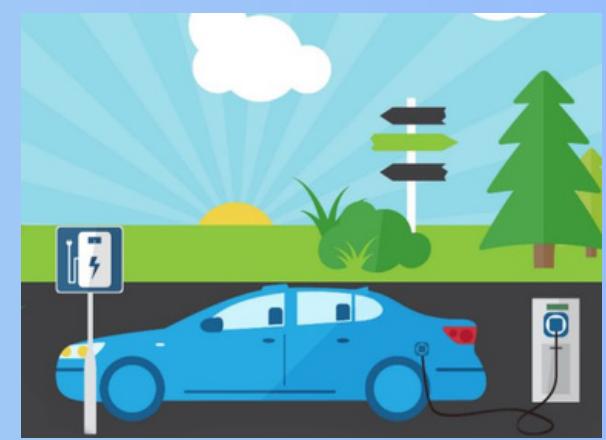
RECOMMENDATION - 2 :

To ensure consistent vehicle sales traction throughout the fiscal year, a comprehensive collaboration between vehicle manufacturers, dealerships, and stakeholders is recommended.

Launching impactful promotional campaigns that underscore the multifaceted advantages of vehicle ownership – encompassing enhanced convenience, safety, and lifestyle elevation – holds the potential to drive demand beyond the traditional Q3 surge.

By conveying these benefits effectively, we can foster a sustained interest among buyers, creating a more balanced and prosperous sales landscape across all quarters of the fiscal year.

SUBJECT - Green Mobility Acceptance



INSIGHT - 3:

The shift witnessed between fiscal years 2021 and 2022 illustrates a momentous evolution towards eco-friendly transportation preferences. This transition not only signifies the broad embrace of electric vehicle (EV) technology across the state but also reflects a profound acceptance of sustainable mobility options.

This highlights the convergence of environmental consciousness and economic considerations, shaping a new era of transportation choice and fostering the integration of EVs into the mainstream.

RECOMMENDATION - 3 :

To expedite electric vehicle (EV) adoption, it's imperative to establish an extensive charging station network across key urban hubs, major highways, and urban centers. Simultaneously, launching targeted awareness campaigns is vital to educate consumers about EV benefits, spanning reduced emissions, cost savings, and tax incentives.

Merging infrastructure development with strategic awareness efforts will facilitate a holistic approach, encouraging a broader audience to embrace EVs as a sustainable and practical transportation choice.

SUBJECT - Sustainable Investment Imbalance



INSIGHT - 4 :

In the fiscal year 2022, notable investments have flowed predominantly "Plastics & Rubbers" sector.

However, it's noteworthy that investments allocated to critical domains like "Renewable Energy" and "Research & Development" remain notably modest in comparison.

This observation highlights an imbalance where the pivotal sectors of sustainable energy and innovation receive comparatively less funding, which shows the government might need to rethink their investment priorities to focus more on things that help the environment and bring innovation for the future.

RECOMMENDATION - 4 :

To harness renewable energy's potential, create a strong policy roadmap with incentives, tariffs, and clear rules for investors. Identify suitable land for solar and wind projects and make land allocation smoother for developers. Boost demand for renewables by promoting green certifications for buildings and industries.

This paves the way for a sustainable and energy-rich future.

Analysis

SA(3)

SUBJECT - Bridging the Gap



INSIGHT - 5 :

Few districts like Wanaparthy, Jangaon, and Kumurambheem Asifabad lag in various progress indicators such as vehicle sales, revenue generation, and employment figures. Identifying and addressing the root causes behind these disparities is crucial to drive inclusive growth, ensuring these districts flourish on par with others.

RECOMMENDATION - 5 :

To uplift districts like Wanaparthy, Jangaon, and Kumurambheem Asifabad, the government can establish skill development programs that match industry requirements. Partner with vocational institutes, universities, and industries to design training that boosts employability. Launch tailored initiatives like internships, job fairs, and career guidance to cater to youth needs.

This collaborative effort will not only enhance individual prospects but also drive overall district improvement across various sectors.

Analysis How does the sales quantity of vehicles
SA(4) (categorized under different seating capacities) vary across different districts of Telangana?

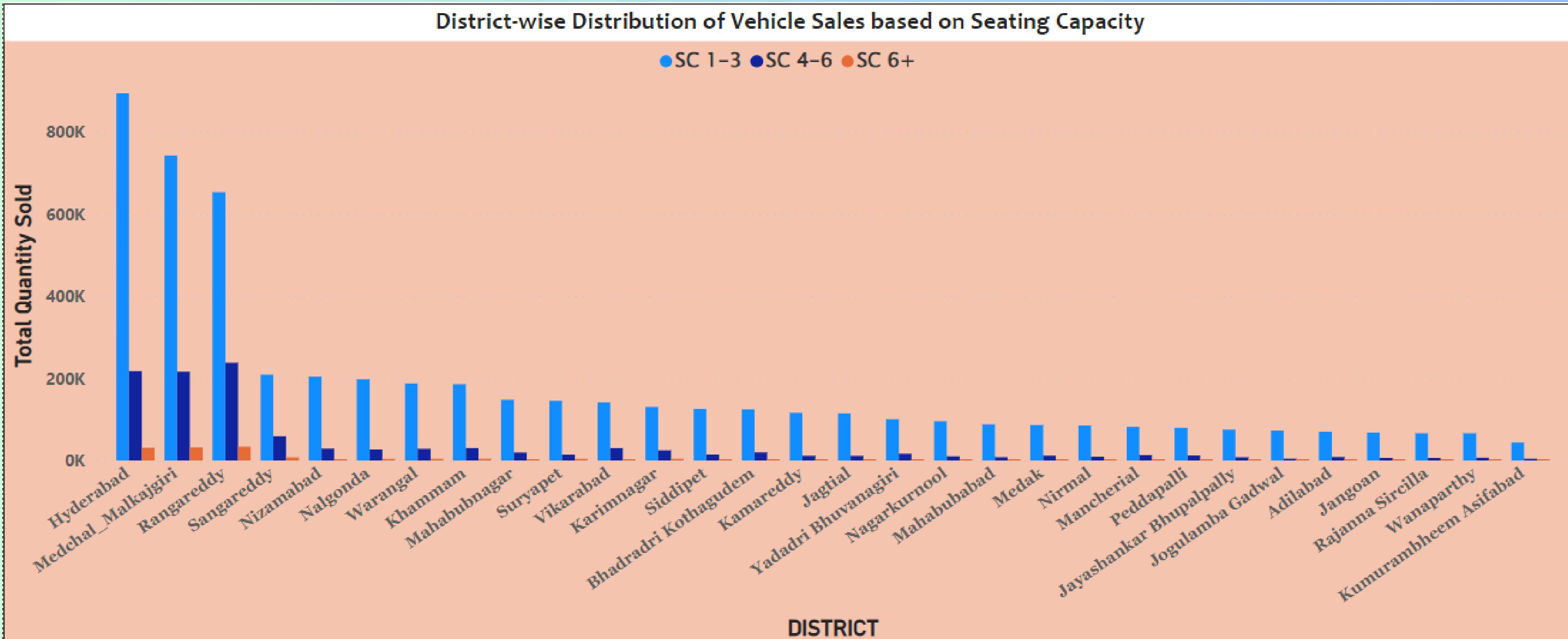
Analysis How does the sales quantity of vehicles (categorized under different seating capacities) vary across different districts of Telangana?

SA(4) Vehicles are categorized based on their seating capacity into three groups:

- Compact Vehicles (those accommodating 1-3 passengers),
- Mid-sized Vehicles (those with seating for 4-6 individuals), and
- Large Vehicles (those capable of seating 6 or more people).

Analysis

SA(4)



Analysis SA(4)

INSIGHT

- Analysis of data spanning fiscal years 2019 to 2022 in Telangana State consistently reveals a sustained and consistent demand for vehicles with a seating capacity ranging from 1 to 3.
- This enduring trend indicates a preference among consumers or businesses for smaller and more compact vehicles during this period.
- The reasons behind this preference could vary and may include factors such as fuel efficiency, urban mobility requirements, or changing consumer preferences.
- This valuable insight can inform strategic decisions for businesses and policymakers in the automotive sector and related industries within Telangana.

Analysis How has the implementation of TS-iPASS positively impacted enterprises
SA(5) of various categories?

Analysis How has the implementation of TS-iPASS positively impacted enterprises SA(5) of various categories?

Telangana state categorizes enterprises into four main types based on their scale and operations :

- Micro & Small Enterprises,**
- Medium Enterprises,**
- Large Enterprises, and**
- Mega Enterprises.**

Analysis SA(5) According to the latest update in the TS-iPASS report of Telangana, we have the following data :

S. No.	Type	Investment Range (Rs. in Cr.)	No. of Industries	Investment (In Cr.)	Total Employment
1.	MSEs (Micro & Small Enterprises)	0-5	2898 (84)	2686.31 (4.60)	46803 (21)
2.	Medium Enterprises	5-10	205 (6)	1399.65 (2.4)	12774 (6)
3.	Large Enterprises	10-200	308 (9)	13561.92(23.24)	78970 (36)
4.	Mega Enterprises	More Than 200	40 (1)	40693.27(69.75)	82211 (37)
TOTAL			3451	58341.15	220758

Figures in parenthesis indicates % share

Analysis SA(5)

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OBSERVATION - 1

It is observed that the maximum number of industries belongs to MSEs (84%) followed by large & and mega enterprises (10%) and medium enterprises (6%).

OBSERVATION - 2

4.6% of investment is in the MSE Sector, 92.99% of the investment is in the Large and Mega Enterprises Sector, and only 2.4% of the investment is in the Medium-Scale Sector.

OBSERVATION - 3

Considering the employment distribution, 73% is generated in Large and Mega Enterprises. Meanwhile, 21% of these opportunities are created within Micro and Small Enterprises with the remaining 6% arising from the Medium Enterprises.

Analysis

SA(5)

Upon analyzing the data and observations, the following key insights can be derived :

- It is essential to prioritize the development of Medium Enterprises, particularly those with a labor-intensive focus, as they have the potential to generate more significant employment opportunities.
- Micro and Small Enterprises (MSEs) constitute the majority of units, although their contribution to overall employment is comparatively smaller than that of Large and Mega Enterprises.

Thank
you!