

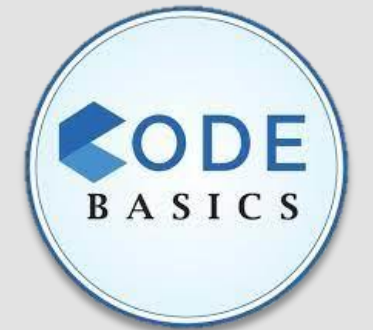
# Telangana Growth Analysis

Discovering Telangana: Analysing the Key Insights into State's Remarkable Growth

- Ronak Parmar



**OPEN DATA**  
TELANGANA

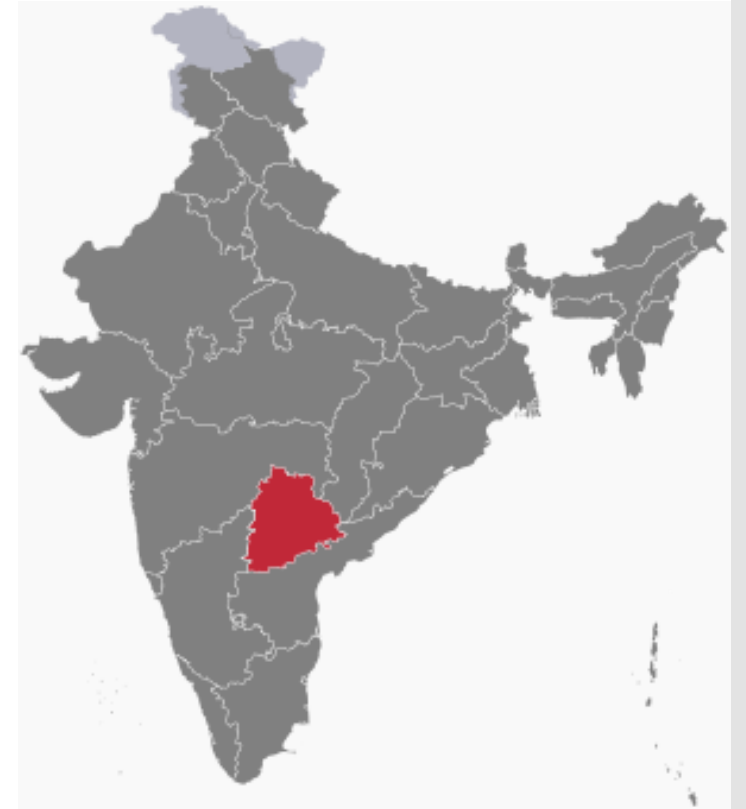


# Agenda

- Introduction
- Project Details
- Data Analysis
- Summarising the Insights

# Introduction

- Telangana is a dynamic and culturally diverse state located in southern part of India. It is one of India's 28 states and was officially formed on June 2, 2014.
- It is the youngest state of India.
- In recent years, Telangana has gained recognition for its remarkable economic growth and development. It has been at the forefront of India's technological revolution, with numerous IT companies and research institutions establishing a presence in the state.
- Hyderabad, one of India's major metropolitan cities and the state's capital, serves as the economic, technological, and cultural hub of Telangana.



# Project Details

- This Data Analysis Project was possible due to the below mentioned:
  - Open Data Telangana
  - CodeBasics
- Research Questions used as framework for this project:
- Tools used:
  - MS Excel
  - MS PowerBI
  - MS Powerpoint



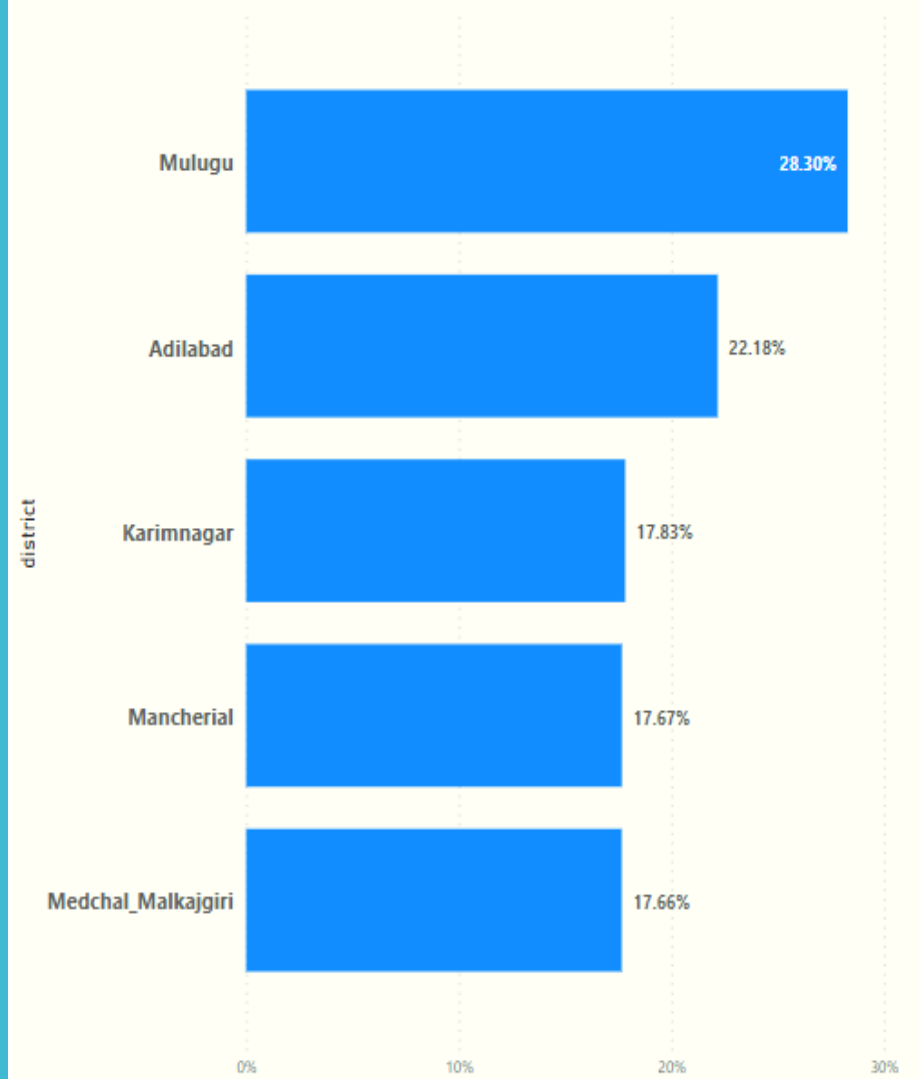
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Insights revolving around

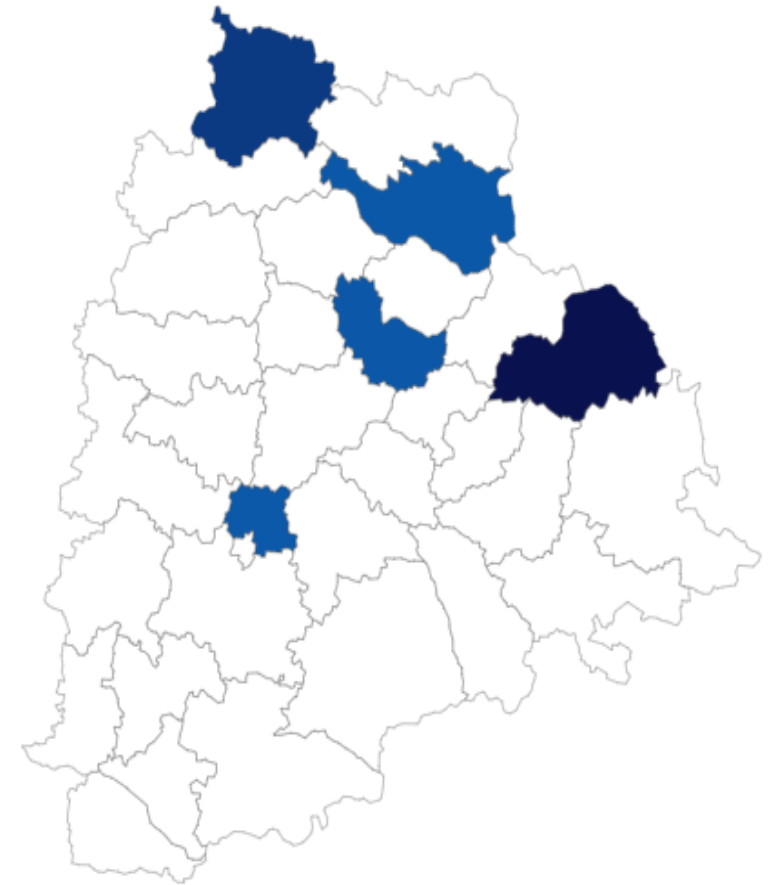
# Stamp Registration

# District wise Comparison of Growth rate for Revenue Earned by Document Registration

Compounded Annual Growth Rate of Doc. Registered by District

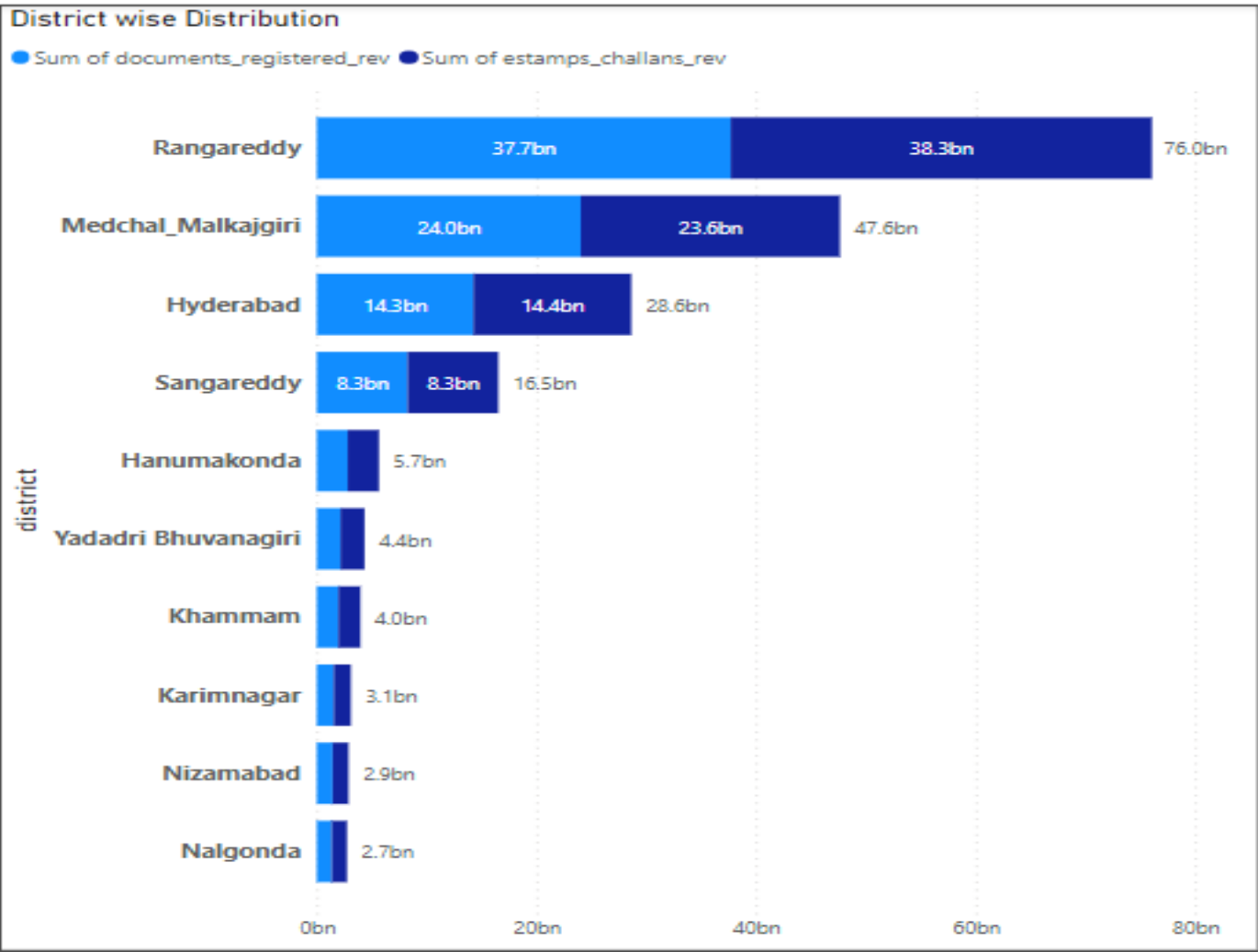


Compounded Annual Growth Rate of Doc. Registered by District

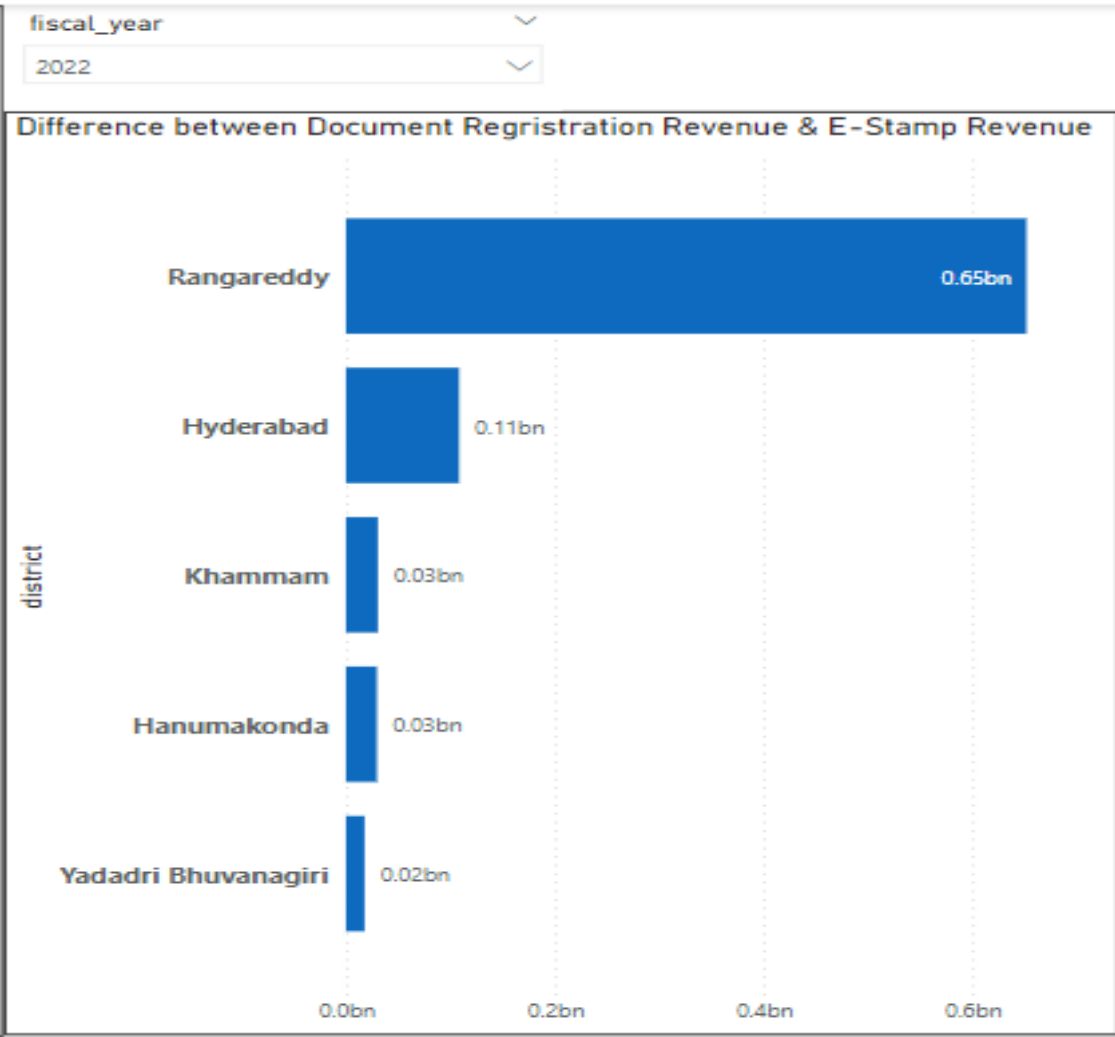


Top 5 Districts

# Comparison of Revenue generated by Document Registration v/s E-stamp challan. Top 5 districts where revenue generated from E-stamp challan is more.

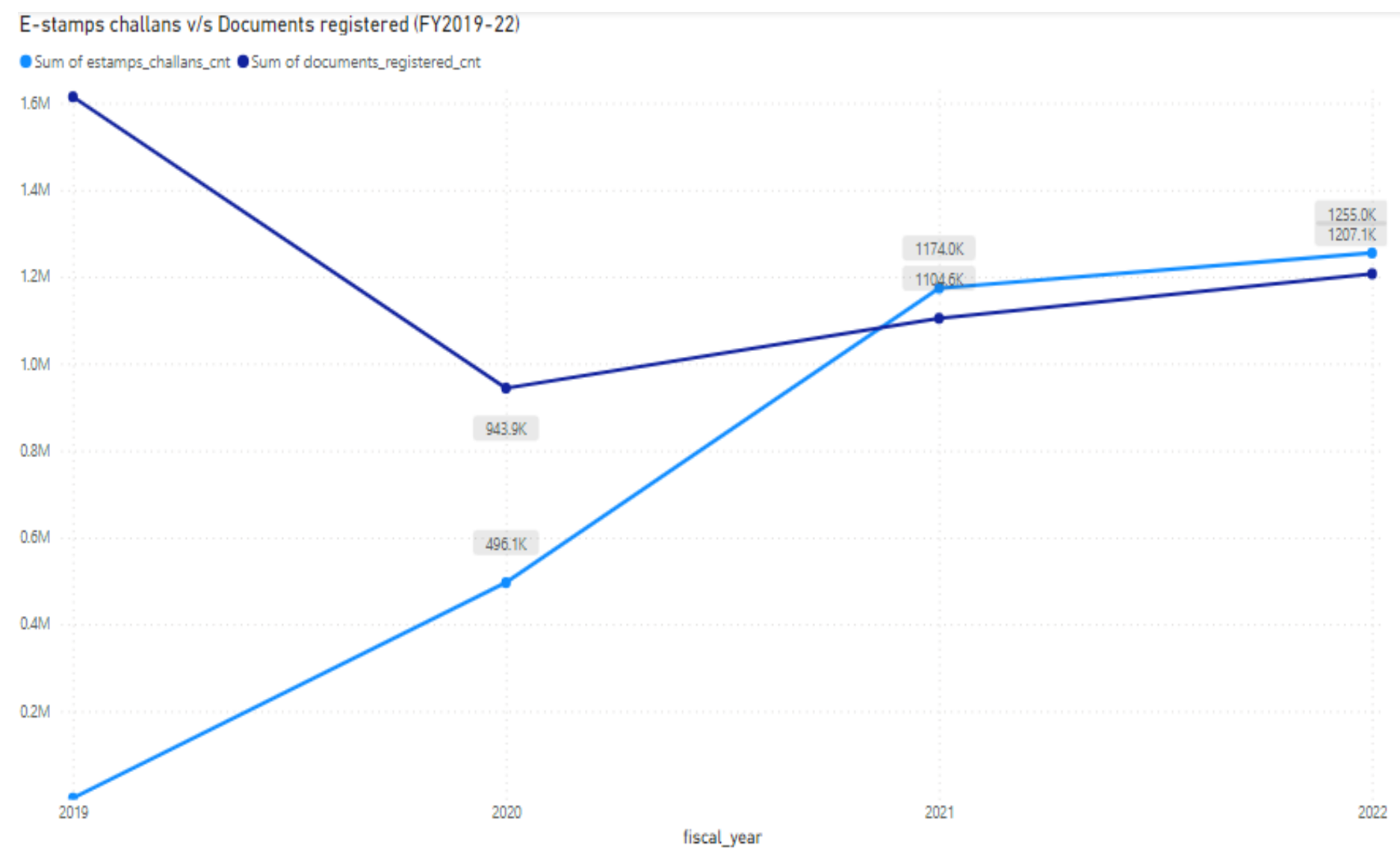


Top 10 districts in terms of total revenue generation



Top 5 districts where revenue generated by E-Stamp challan is more

# Trend comparison between count of E-Stamp Challan v/s Document Registration for FY2019 - 2022



The graph clearly indicates the steep growth of E-stamp challan as the preferred way of paying the government non-judicial stamp duty.

Though, the government should promote the E-stamp challan further as the growth from the year 2021-22 has not been very significant.



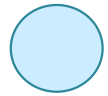
# Revenue generated by E-stamp challans across districts.



Districts with revenue above 300 Cr

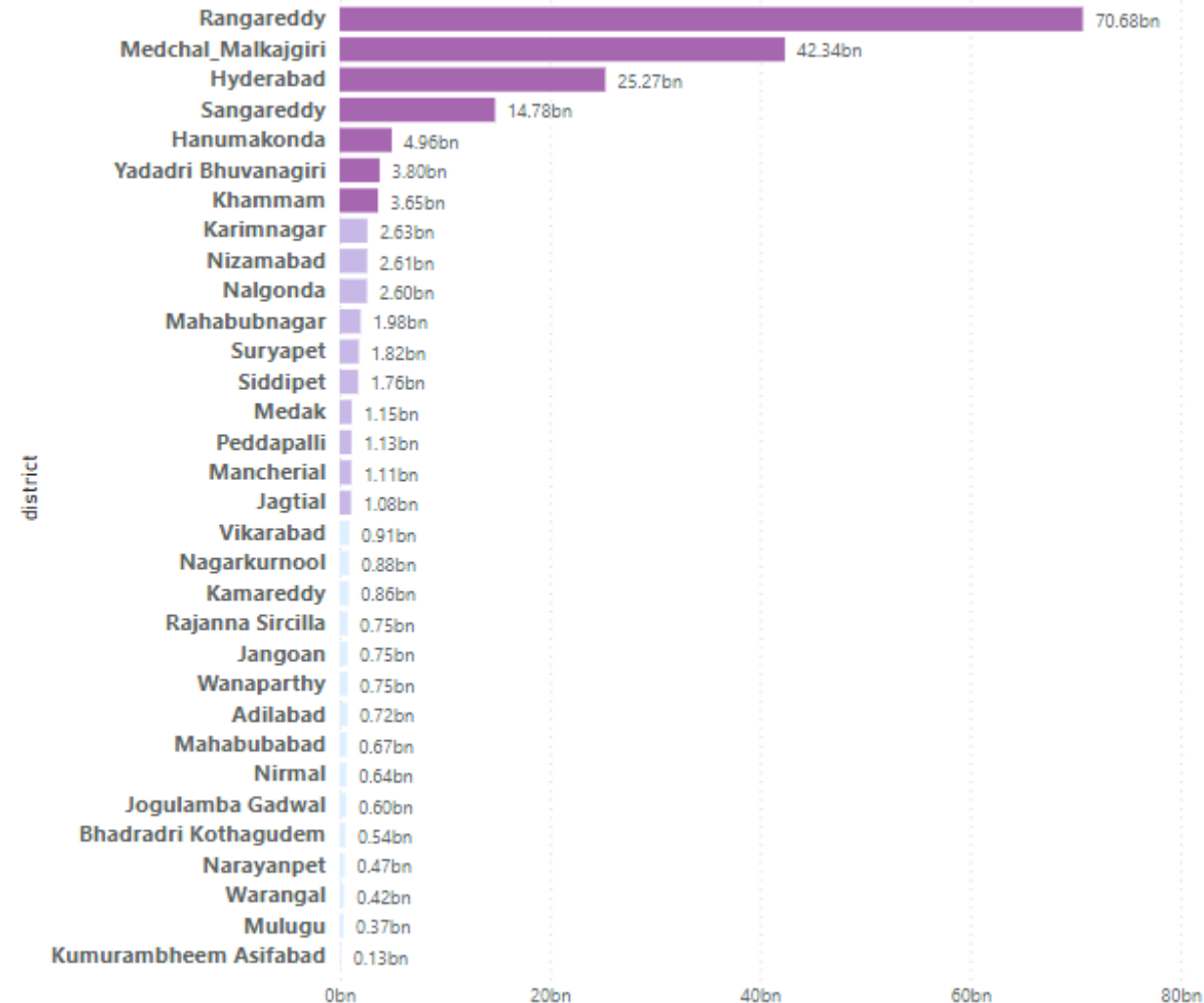


Districts with revenue between 300 Cr and 100 Cr



Districts with revenue below 100 Cr

E-stamps challans revenue by district

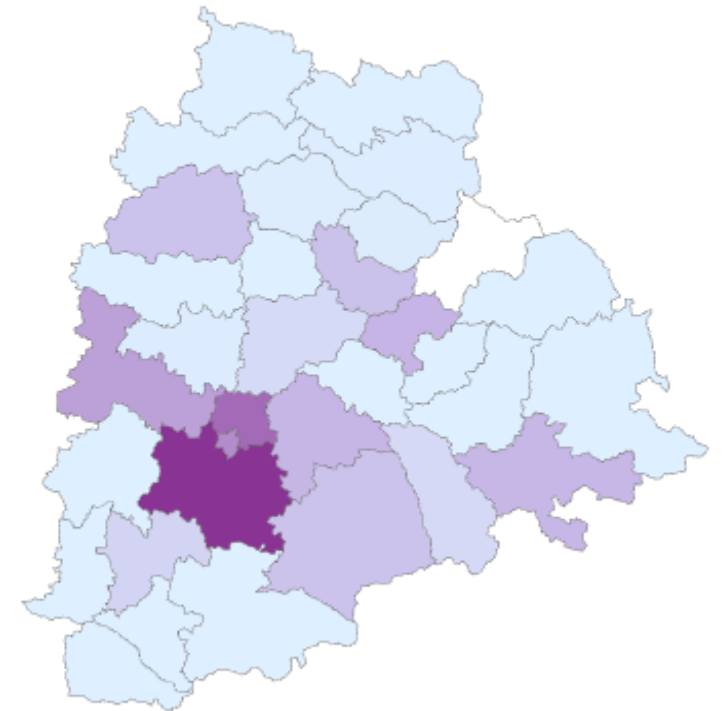


fiscal\_year

2021

2022

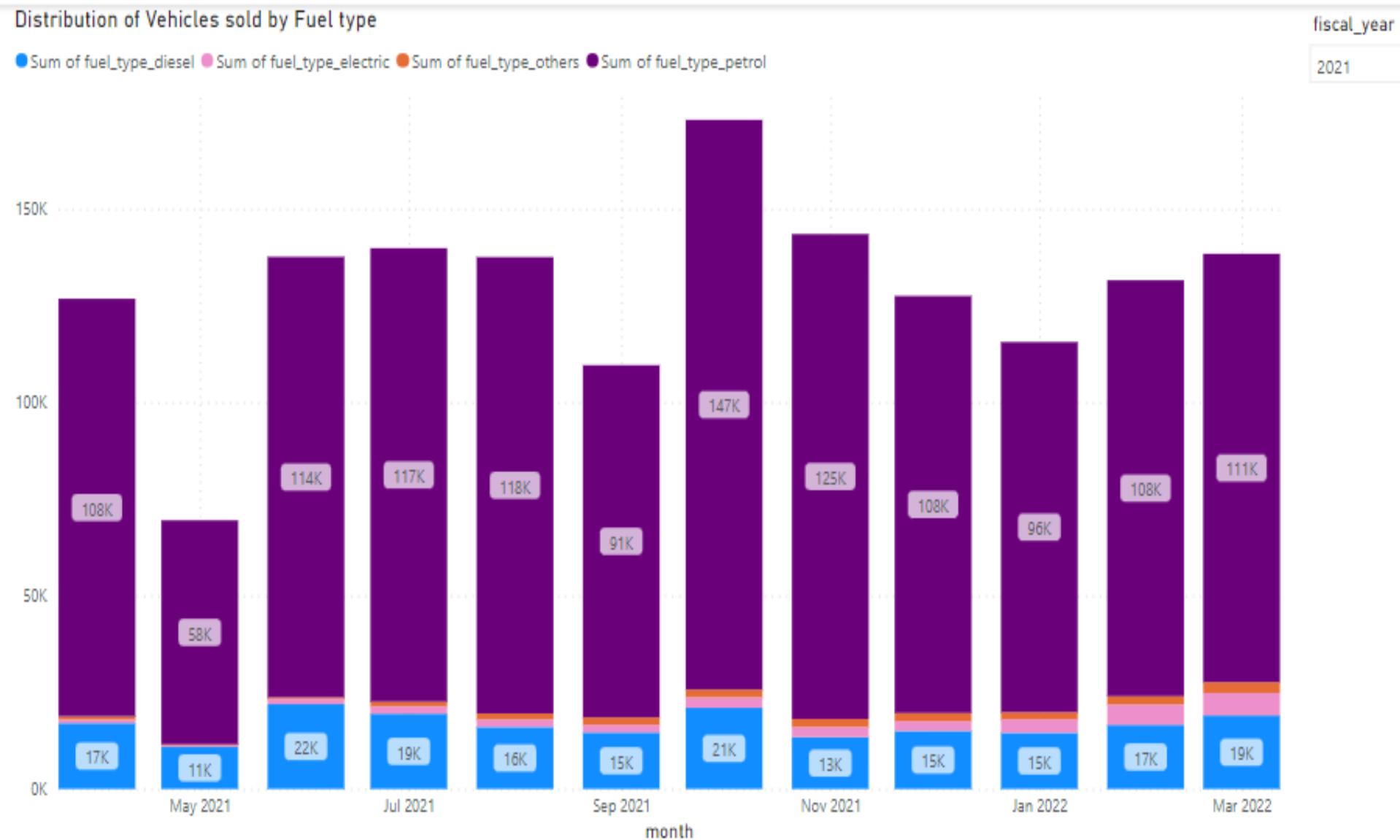
E-stamps challans revenue by district



Insights revolving around

# Transportation

# Analysis of Vehicle sales across a financial year.



A similar graph is shown for the years 2019-20 as well.

A peak is achieved around the months Sept-Oct-Nov. This can be attributed to the Festive season being observed in India. People consider buying of automobile during this time to be auspicious and hence such a sustained increase across all the years.

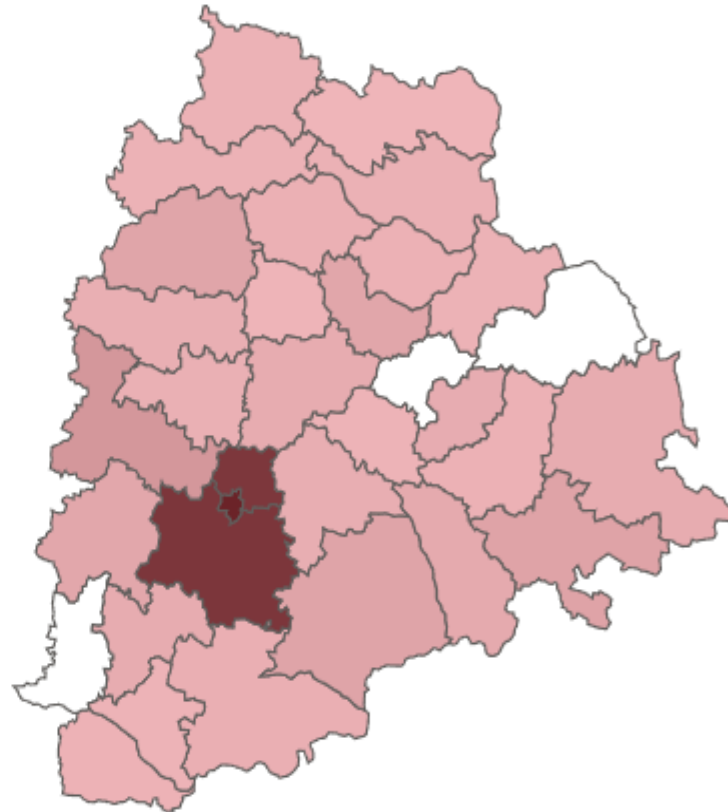
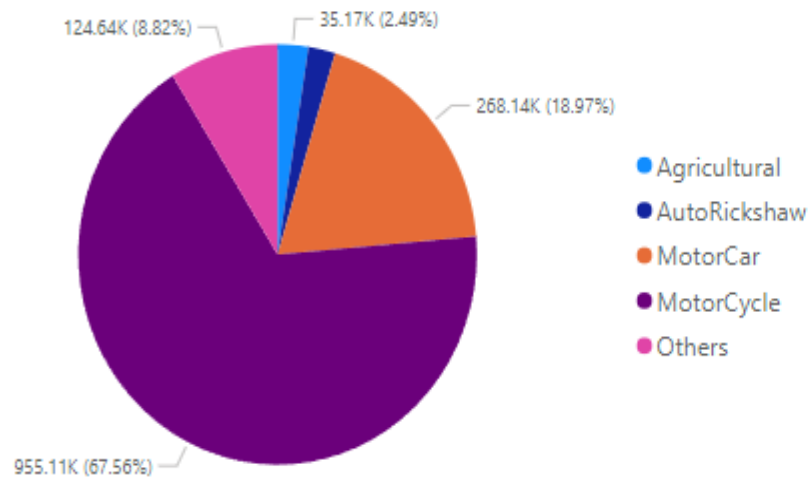
# Distribution of Vehicle Class across the state for FY2022. The Dataset contains data about new vehicle purchase only.

Vehicle wise Distribution

fiscal\_year

2022

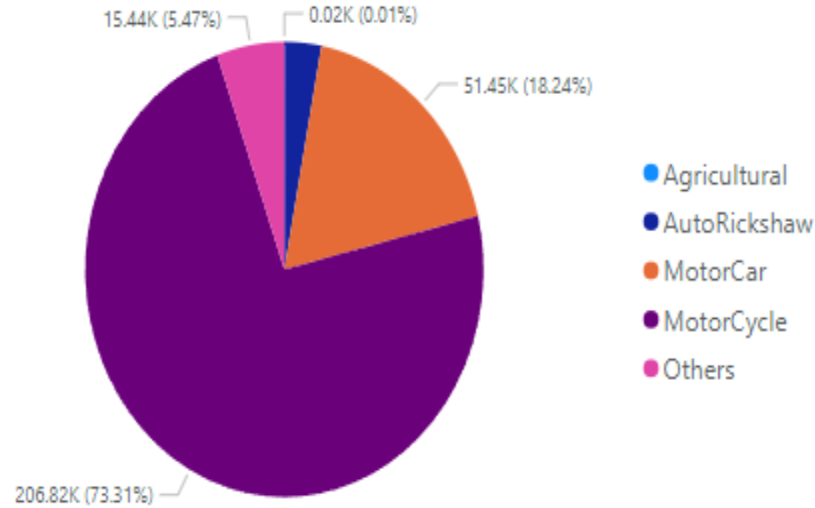
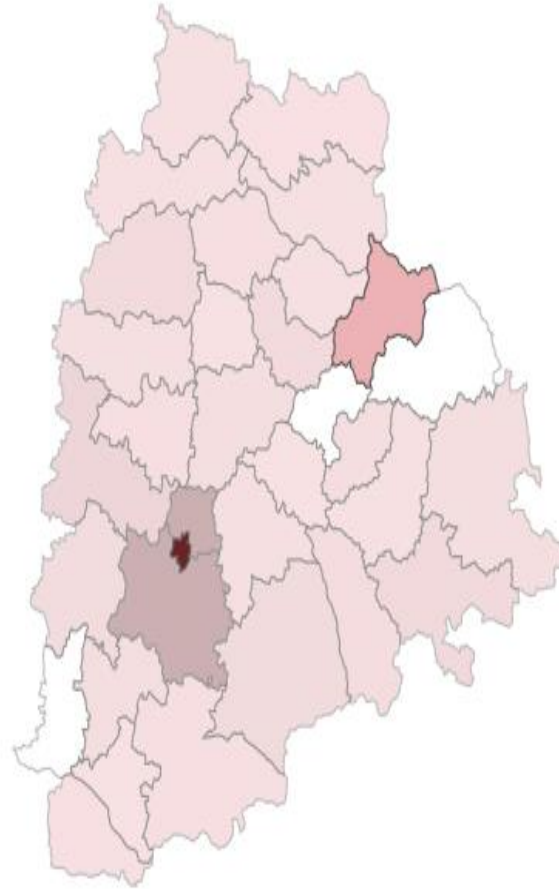
District wise Vehicle Density



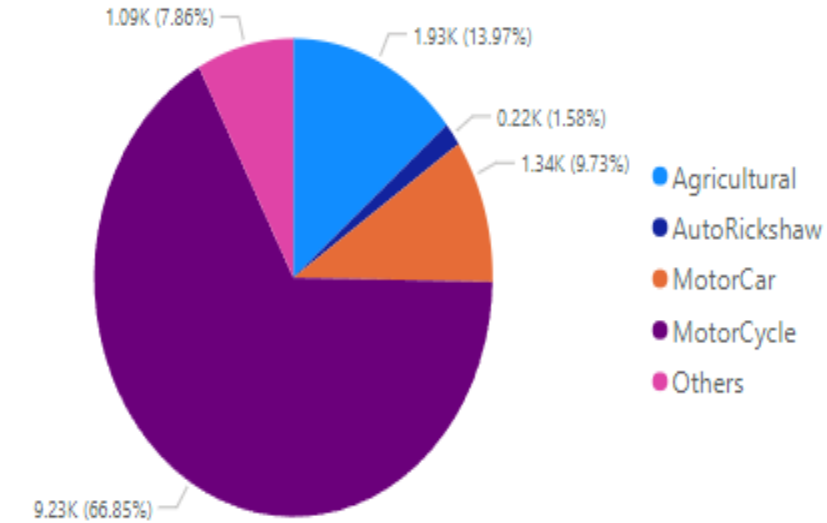
- Motorcycle is the leading vehicle class across the state, Followed by motorcar.
- Performing district wise analysis brings out an interesting insight. Whether it is a very developed district or less developed, motorcycle remains to be on the top spot.
- But in developed districts, the sales of agricultural vehicles is almost negligible. At the same time less developed districts where overall vehicle sales is less, sales of agricultural vehicles hold a significant portion.

# Vehicle Class distribution in Hyderabad v/s Jayashankar Bhupalpally

District wise Vehicle Density



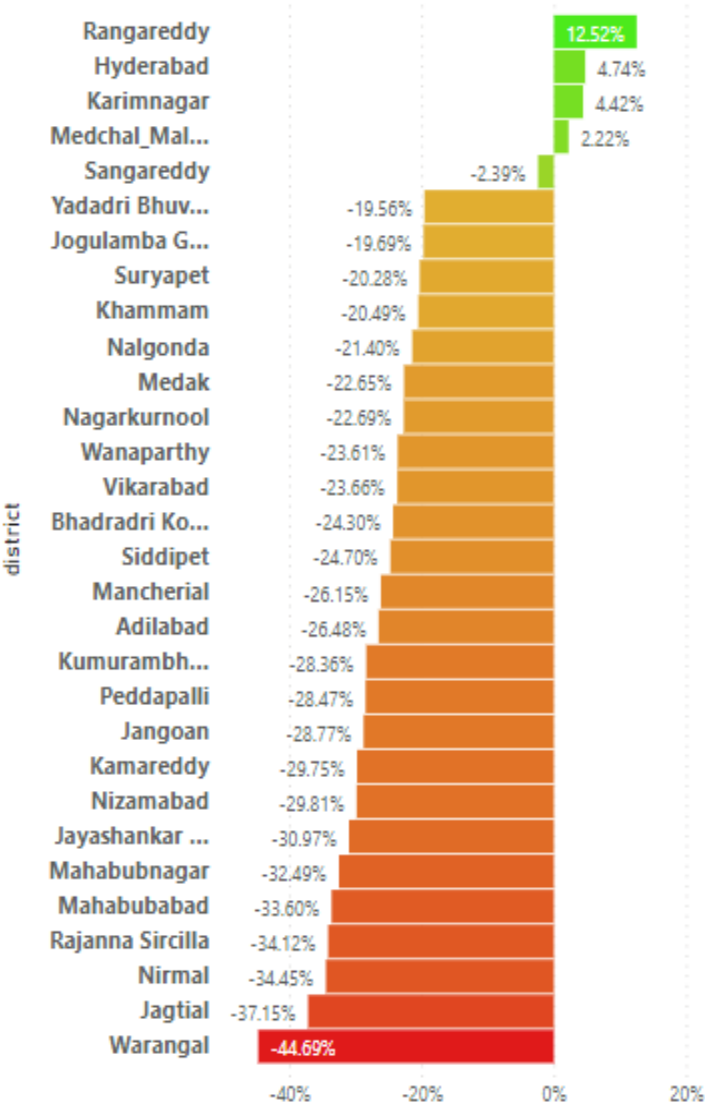
Hyderabad



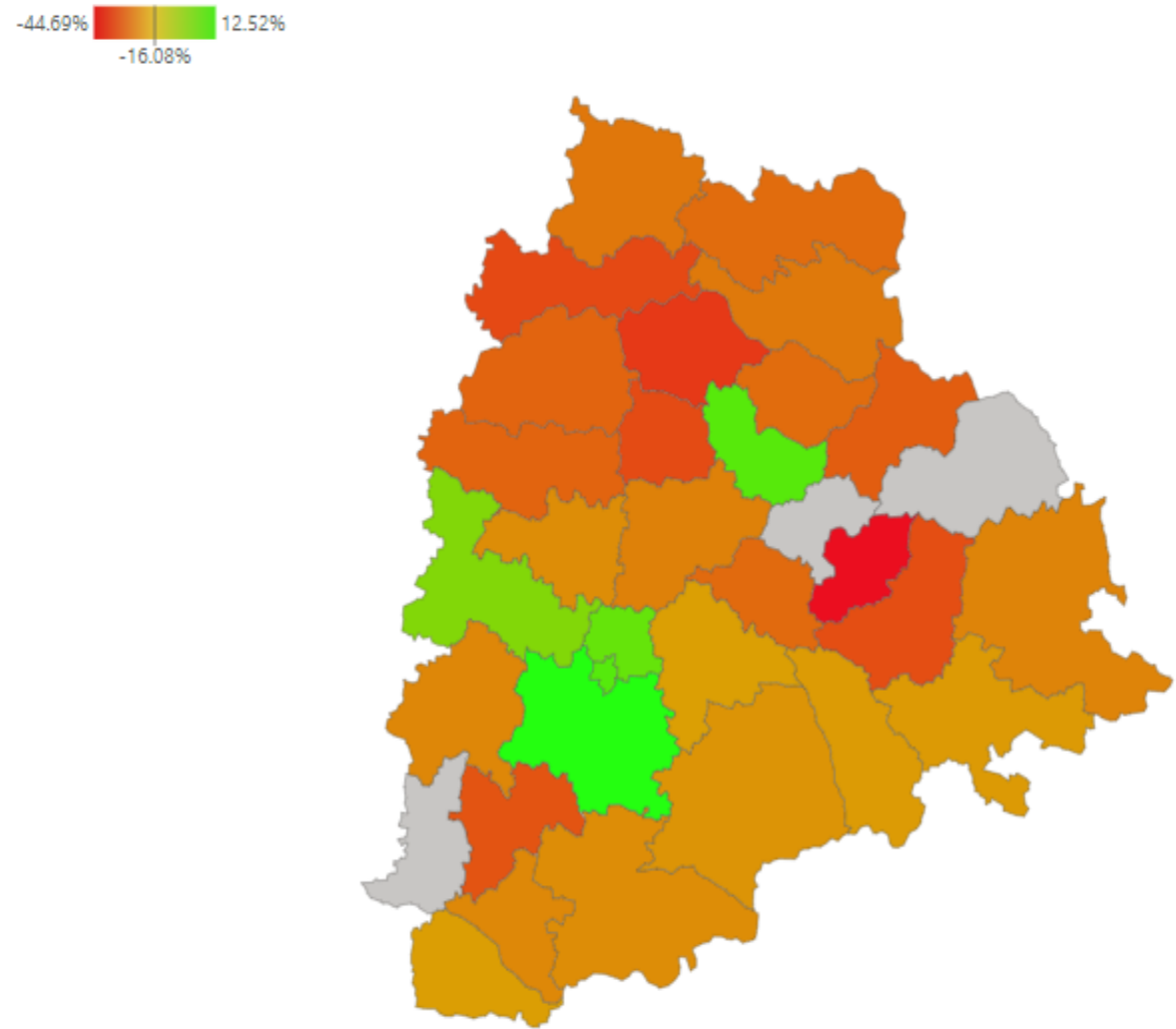
Jayashankar Bhupalpally

# Growth Comparison of Vehicle Sales across the state between FY2021-22

Growth percent of Vehicles by District



Growth percent of Vehicles by District



Top 3

District	Growth %
Rangareddy	12.52%
Hyderabad	4.74%
Karimnagar	4.42%

Bottom 3

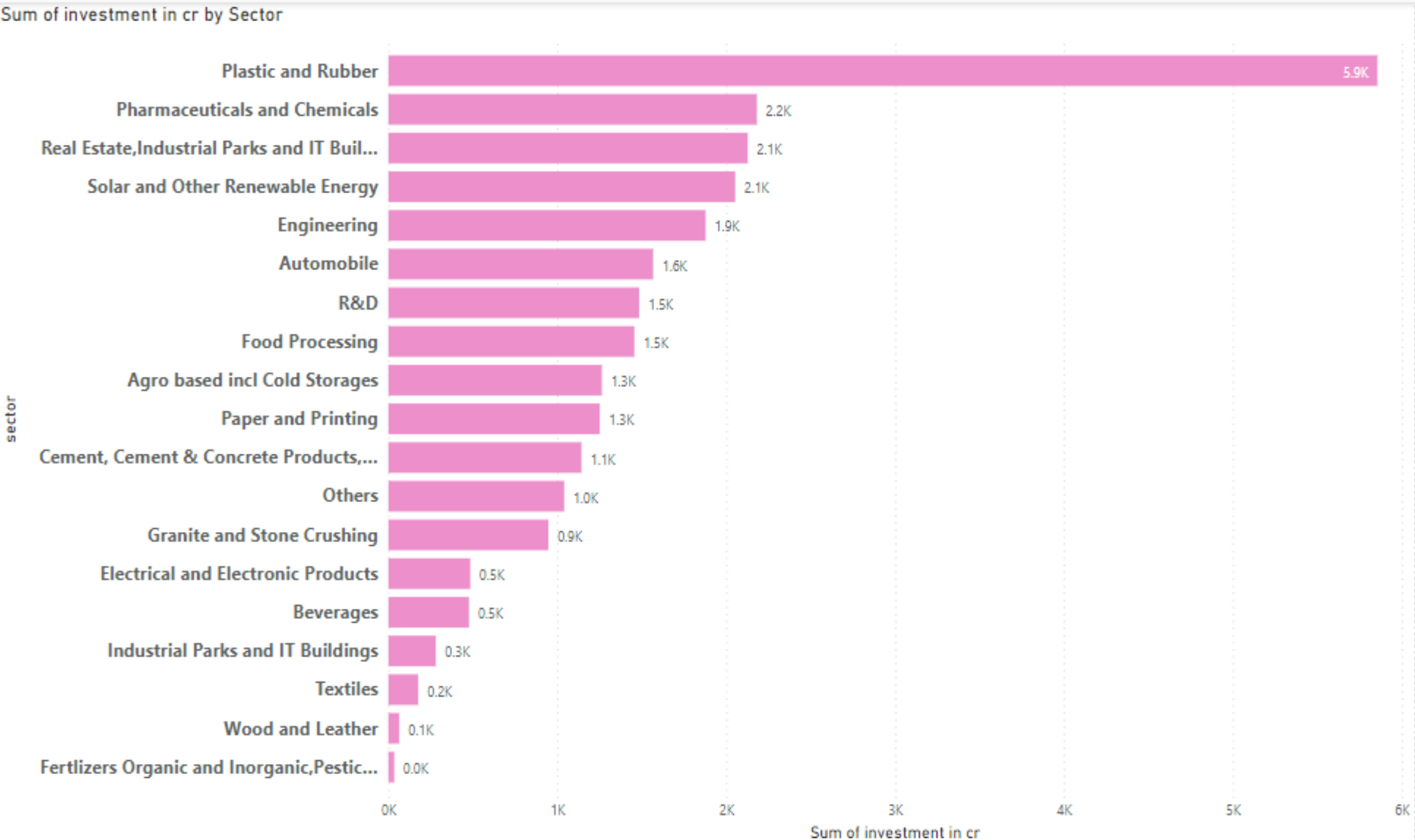
District	Growth %
Warangal	-34.45%
Jagtial	-37.15%
Nirmal	-44.69%

Insights revolving around

# Ts-Ipass

Telangana State Industrial Project Approval and Self  
Certification System

# Investments across various sectors of Industry in the State for FY2022

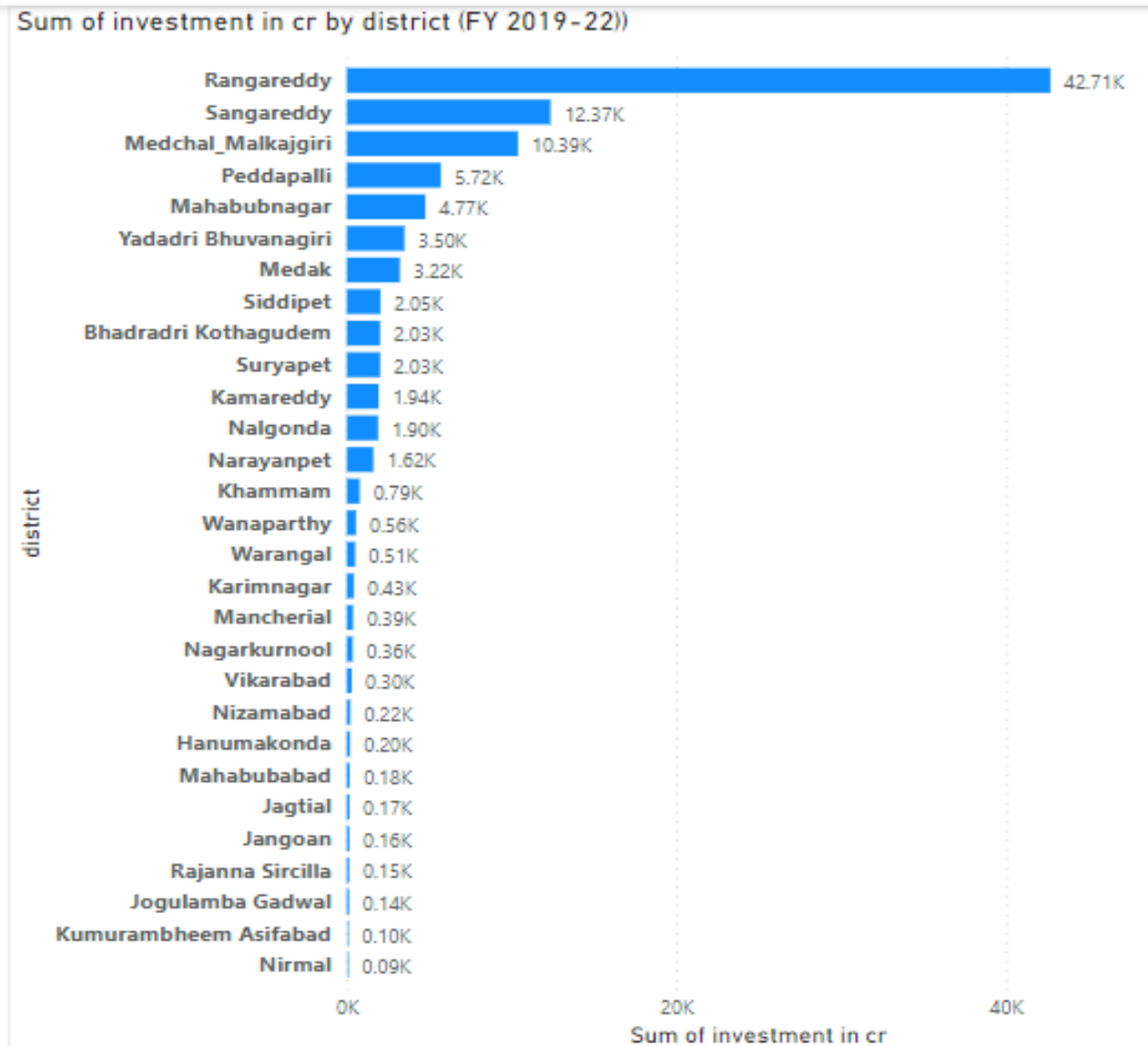


## Top 5 Sectors

Sector	Investment in Cr.
Plastic & Rubber	5856
Pharma & Chemicals	2182
Real Estate	2127
Solar & Renewable Energy	2053
Engineering	1877



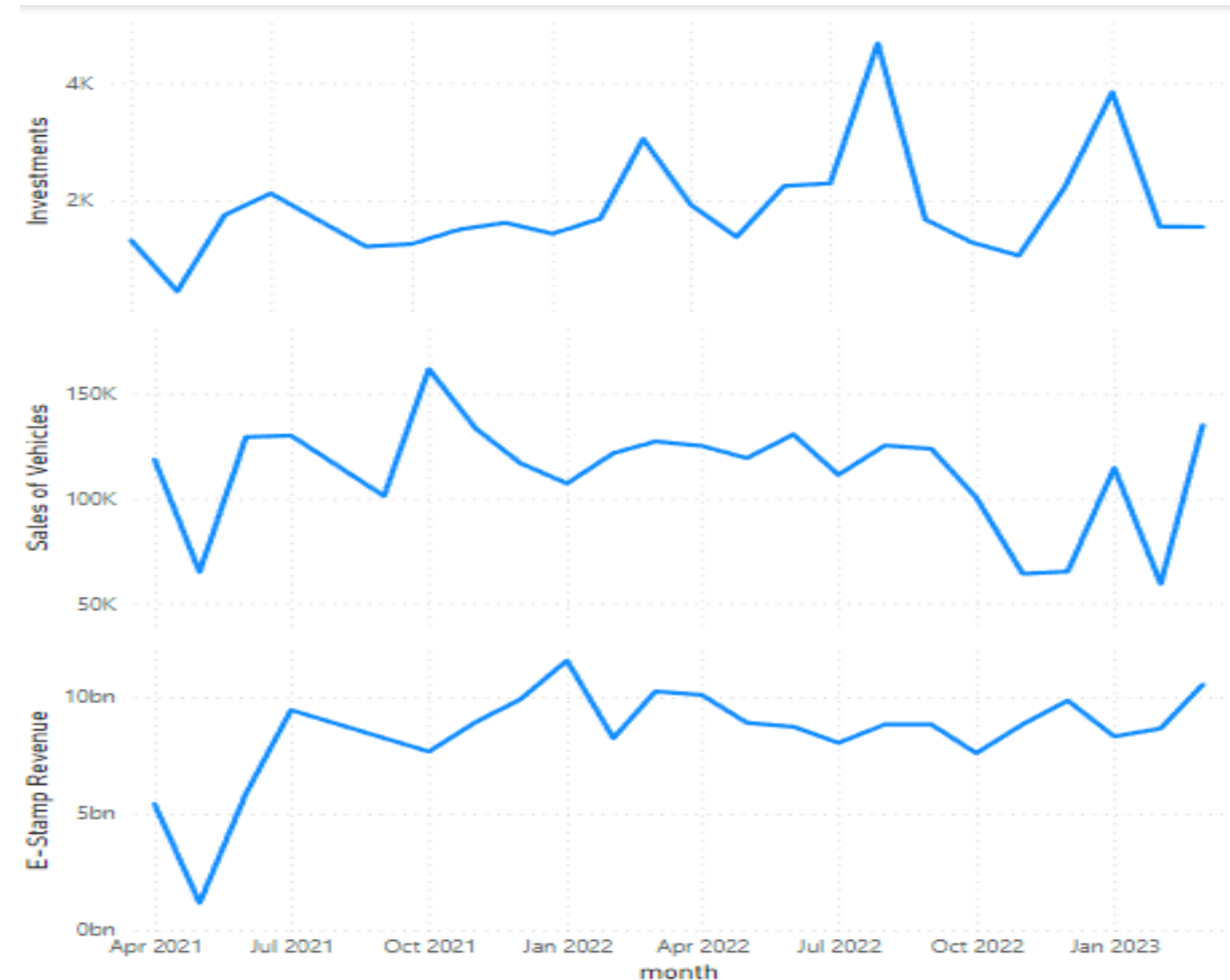
Telangana has been successful in attracting investments. Let's dive in further to check district wise investments for FY2019-22.



Top 3 Districts

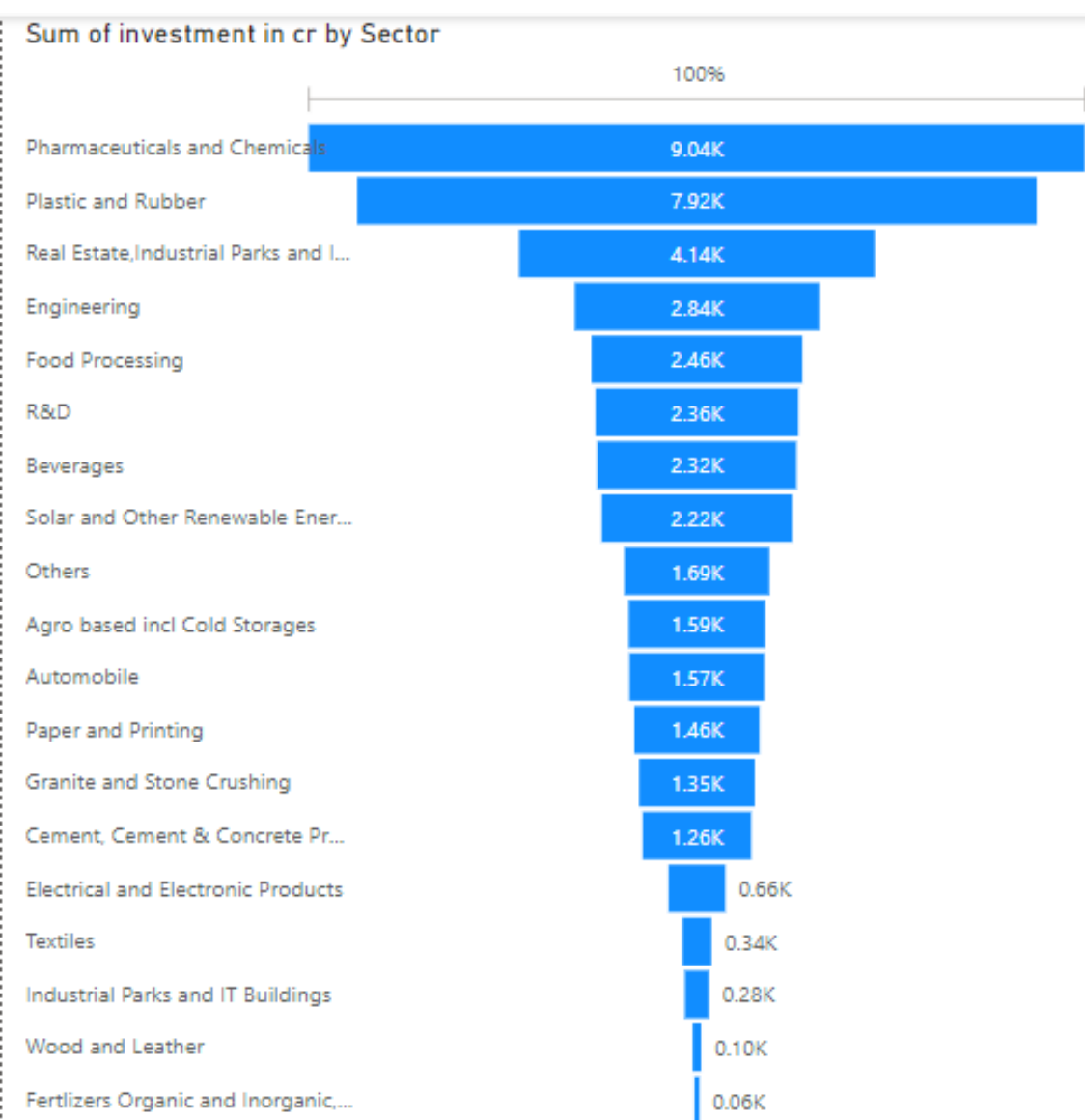
District	Investment in Cr.
Rangareddy	4271
Sangareddy	1237
Medchal Malkajgiri	1039

# Pattern recognition between Investments, Sales of Vehicles and E-Stamp revenue for FY2021-22.



- By plotting graph of the Investments made in State, Sales of New Vehicles and E-Stamp revenue brings out an interesting perspective to note.
- Though the 3 plots do not signify a very strong correlation between them. Still, a pattern can be observed where in an increase or decrease of one reflects in other two as well for a specific time-frame.

# Significant investments for top sectors in multiple districts (FY2021-22)

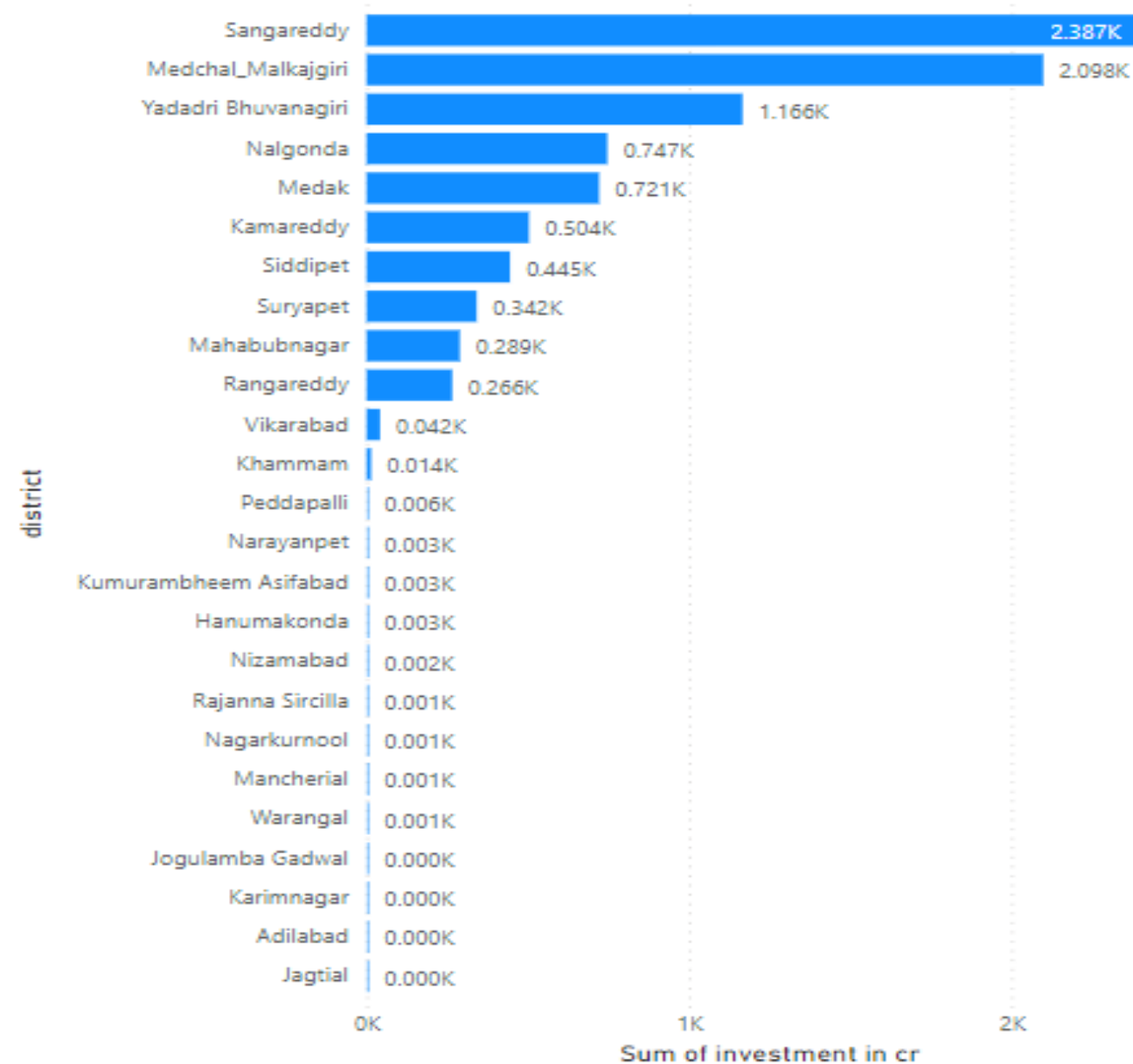


1. Pharmaceuticals & Chemicals
2. Plastic & Rubber
3. Real Estate

They are the top 3 segments in which maximum investments have been drawn in for FY2021-22.

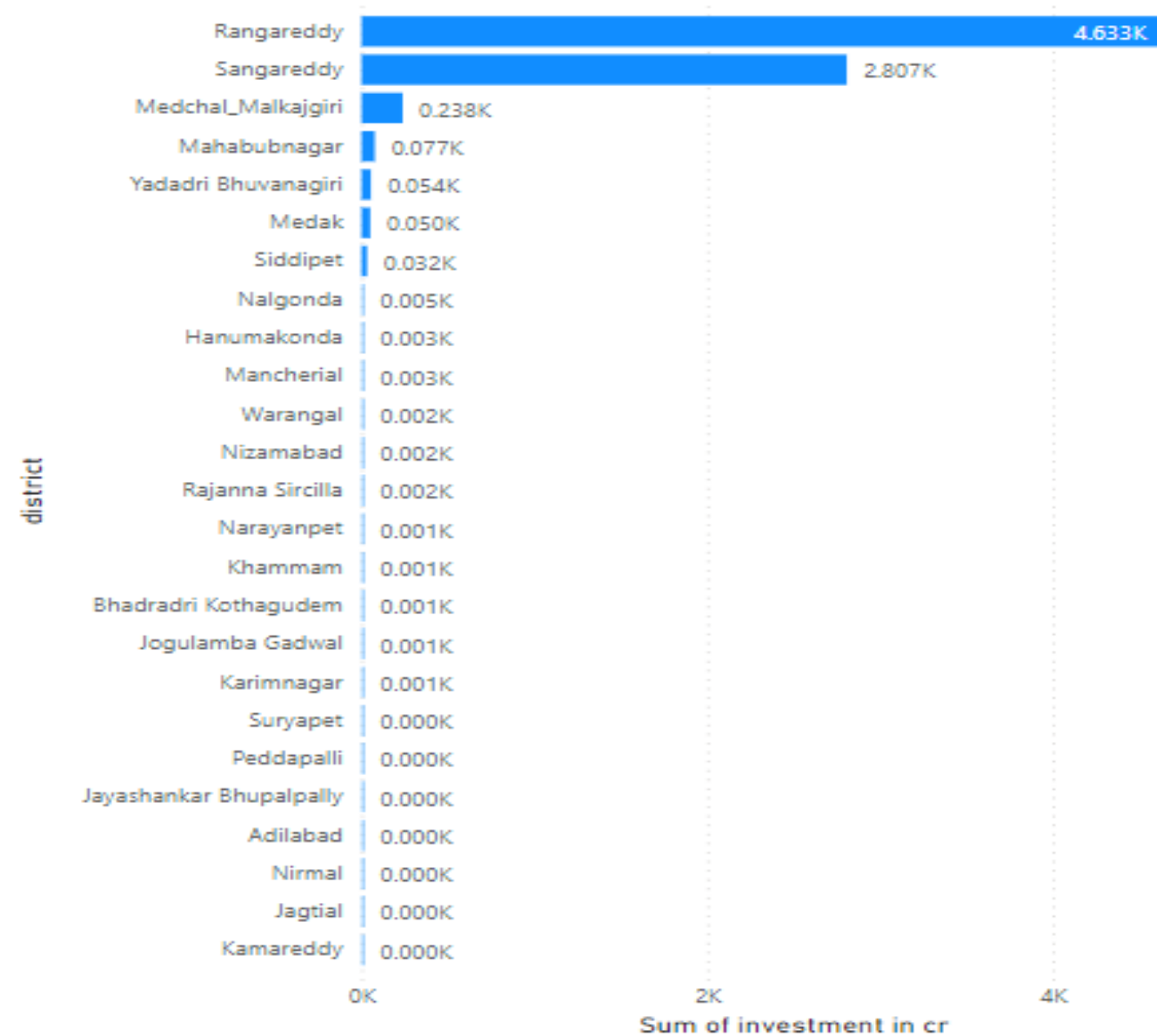
# Pharma. and Chemicals

Sum of investment in cr by District



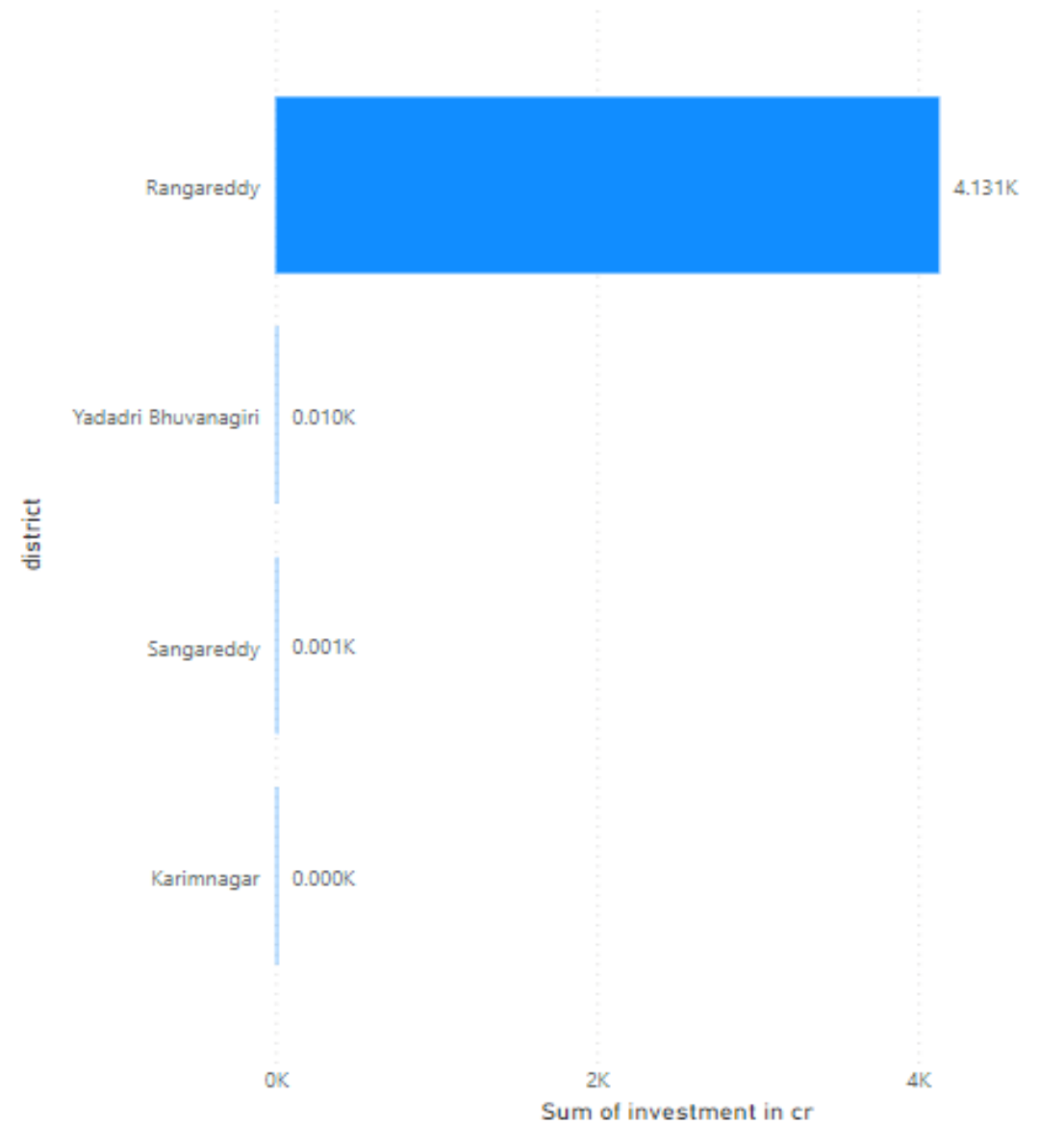
# Plastic and Rubber

Sum of investment in cr by District



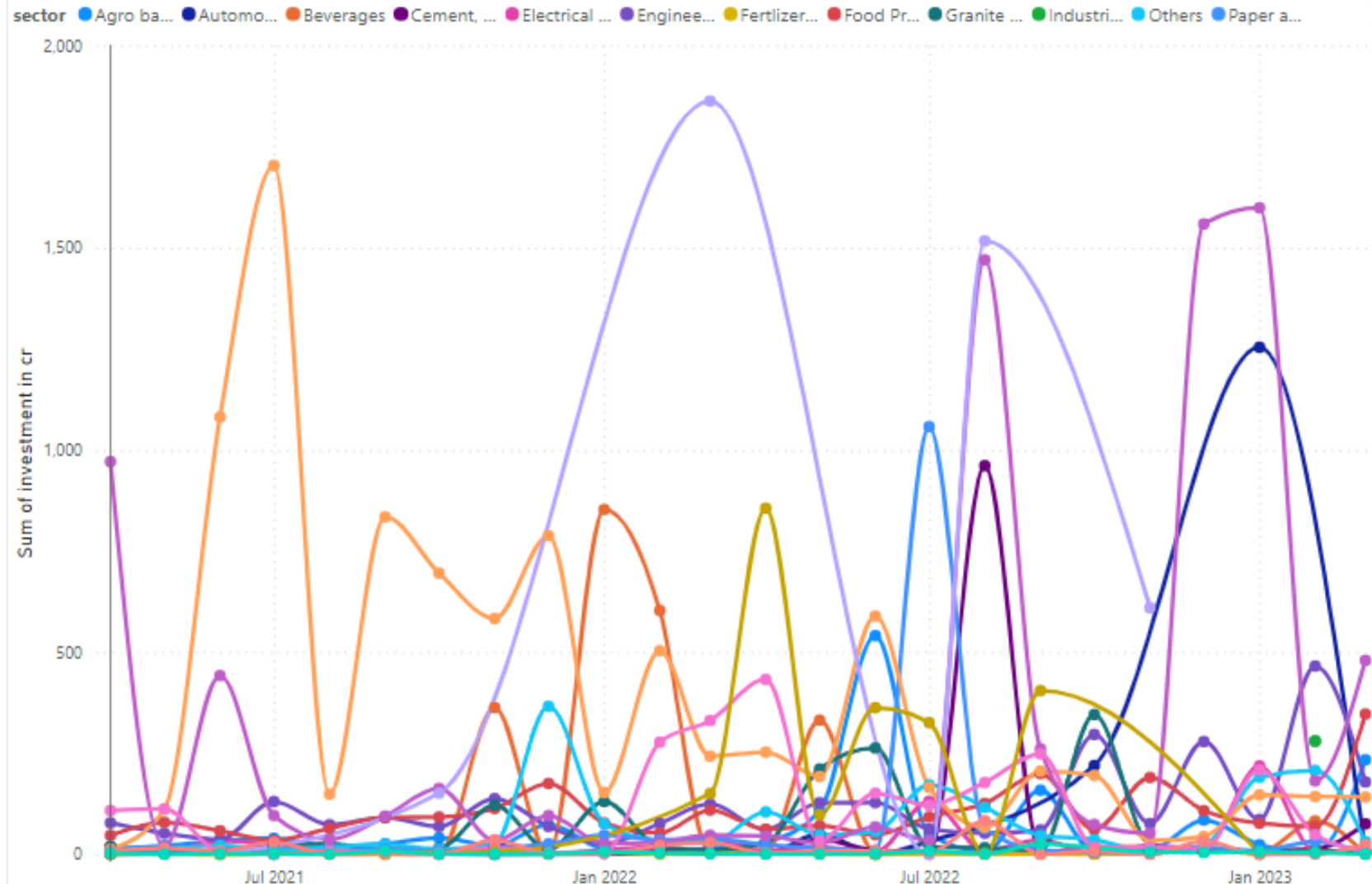
# Real Estate, Industrial Parks and IT Buildings

Sum of investment in cr by District



# Analysing Investment cycle for various sectors in the State between FY 2021-23

Sum of investment in cr by month and sector (FY2021-23)



## sector

Pharmaceuticals and Chemicals  
Plastic and Rubber  
Real Estate, Industrial Parks and IT  
Buildings  
Engineering  
Food Processing  
R&D  
Beverages  
Solar and Other Renewable Energy

## Others

Agro based incl Cold Storages  
Automobile  
Paper and Printing  
Granite and Stone Crushing  
Cement, Cement & Concrete  
Products, Fly Ash Bricks  
Electrical and Electronic Products  
Textiles  
Industrial Parks and IT Buildings  
Wood and Leather  
Fertilizers Organic and  
Inorganic, Pesticides, Insecticides,  
and Other Related

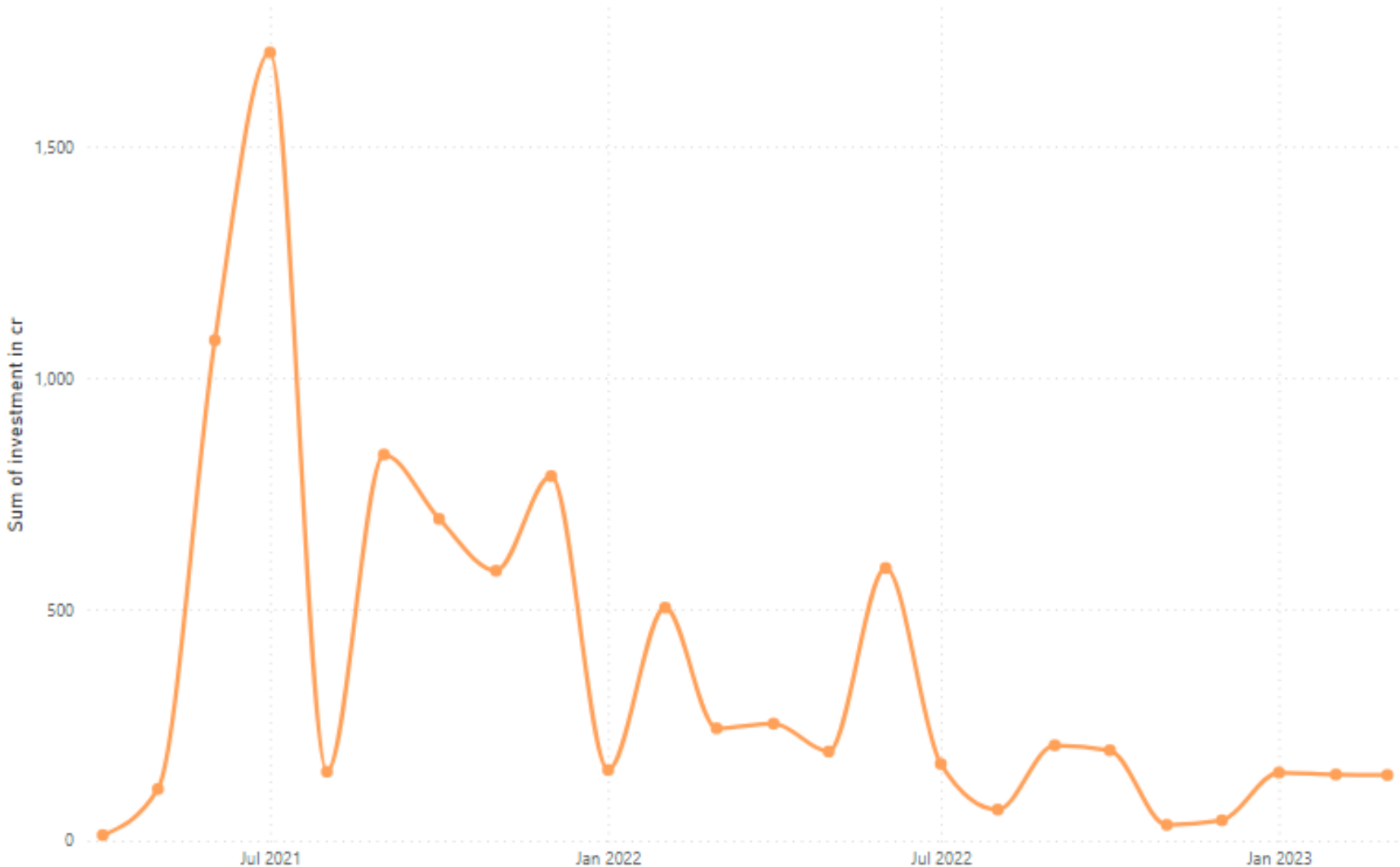
43.65K

Sum of investment in cr

# Pharmaceuticals and Chemicals

Sum of investment in cr by month and sector (FY2021-23)

sector ● Pharmaceuticals and Chemicals



sector

- Pharmaceuticals and Chemicals
- Plastic and Rubber
- Real Estate, Industrial Parks and IT Buildings
- Engineering
- Food Processing
- R&D
- Beverages
- Solar and Other Renewable Energy
- Others
- Agro based incl Cold Storages
- Automobile
- Paper and Printing
- Granite and Stone Crushing
- Cement, Cement & Concrete Products, Fly Ash Bricks
- Electrical and Electronic Products
- Textiles
- Industrial Parks and IT Buildings
- Wood and Leather
- Fertilizers Organic and Inorganic, Pesticides, Insecticides, and Other Related

9.04K

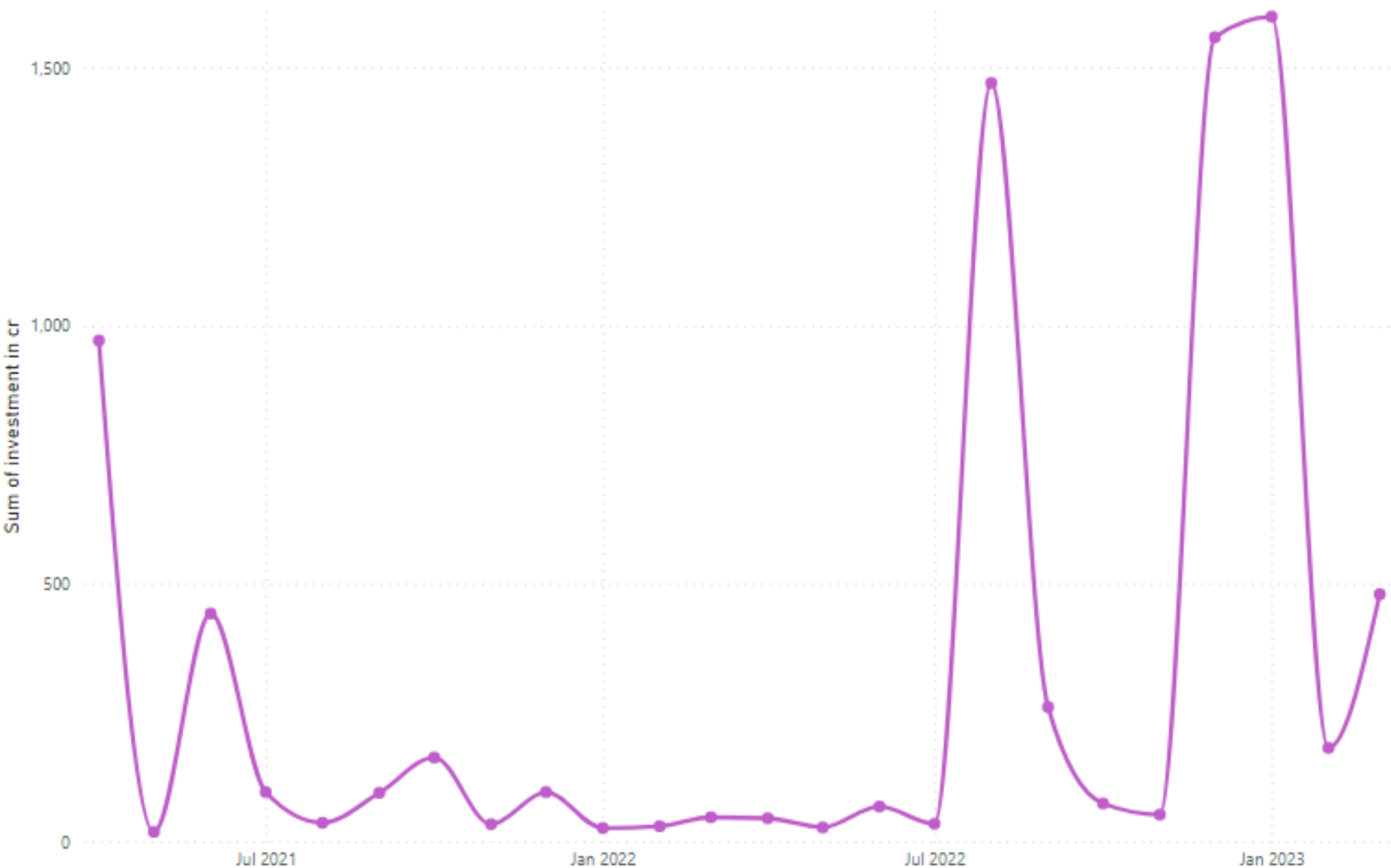
Sum of investment in cr



# Plastic and Rubber

Sum of investment in cr by month and sector (FY2021-23)

sector ● Plastic and Rubber



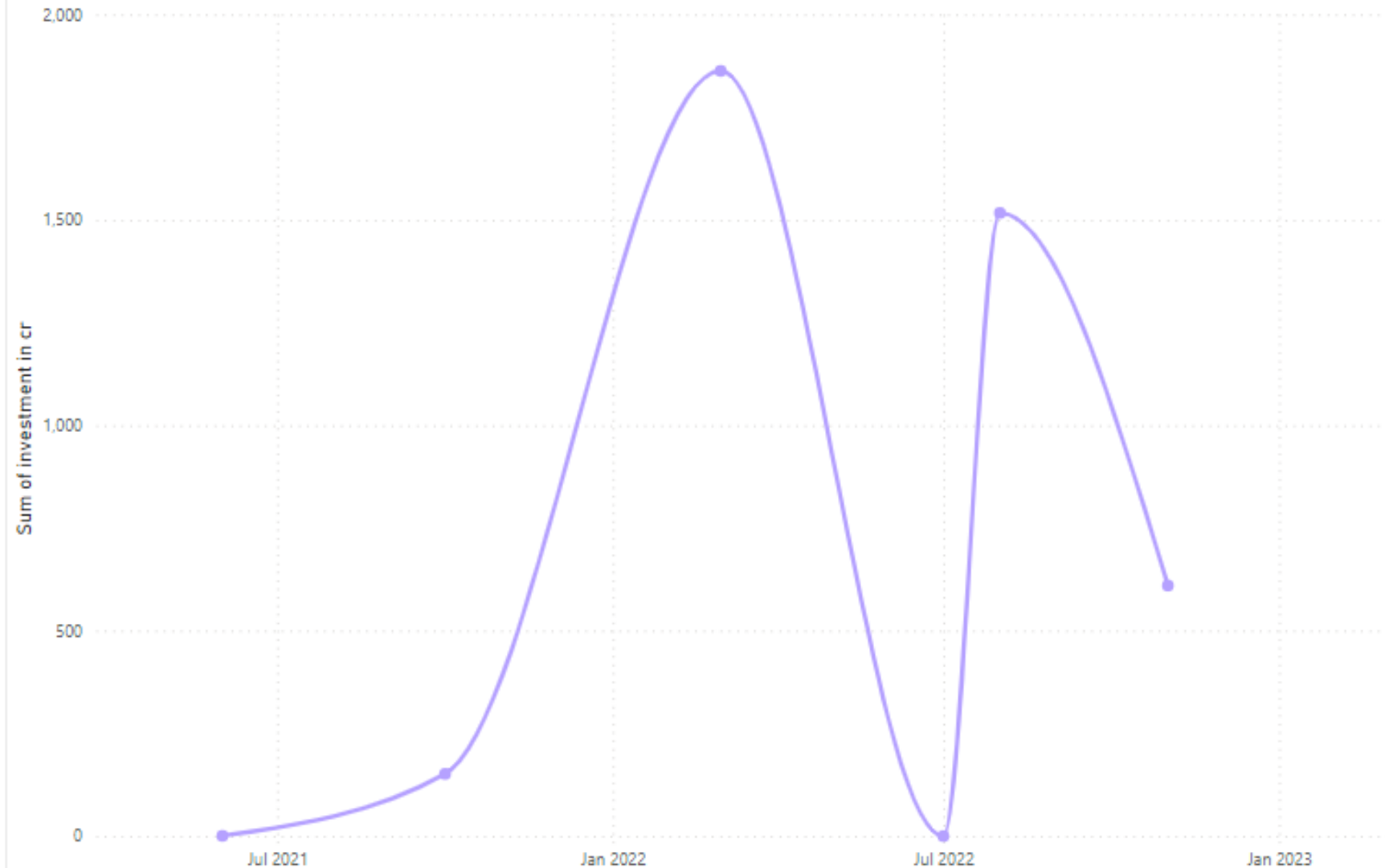
sector
Pharmaceuticals and Chemicals
Plastic and Rubber
Real Estate,Industrial Parks and IT Buildings
Engineering
Food Processing
R&D
Beverages
Solar and Other Renewable Energy
Others
Agro based incl Cold Storages
Automobile
Paper and Printing
Granite and Stone Crushing
Cement, Cement & Concrete Products, Fly Ash Bricks
Electrical and Electronic Products
Textiles
Industrial Parks and IT Buildings
Wood and Leather
Fertilizers Organic and Inorganic,Pesticides,Insecticides, and Other Related

7.92K  
Sum of investment in cr

# Real Estate, Industrial Parks and IT Buildings

Sum of investment in cr by month and sector (FY2021-23)

sector ● Real Estate,Industrial Parks and IT Buildings



sector

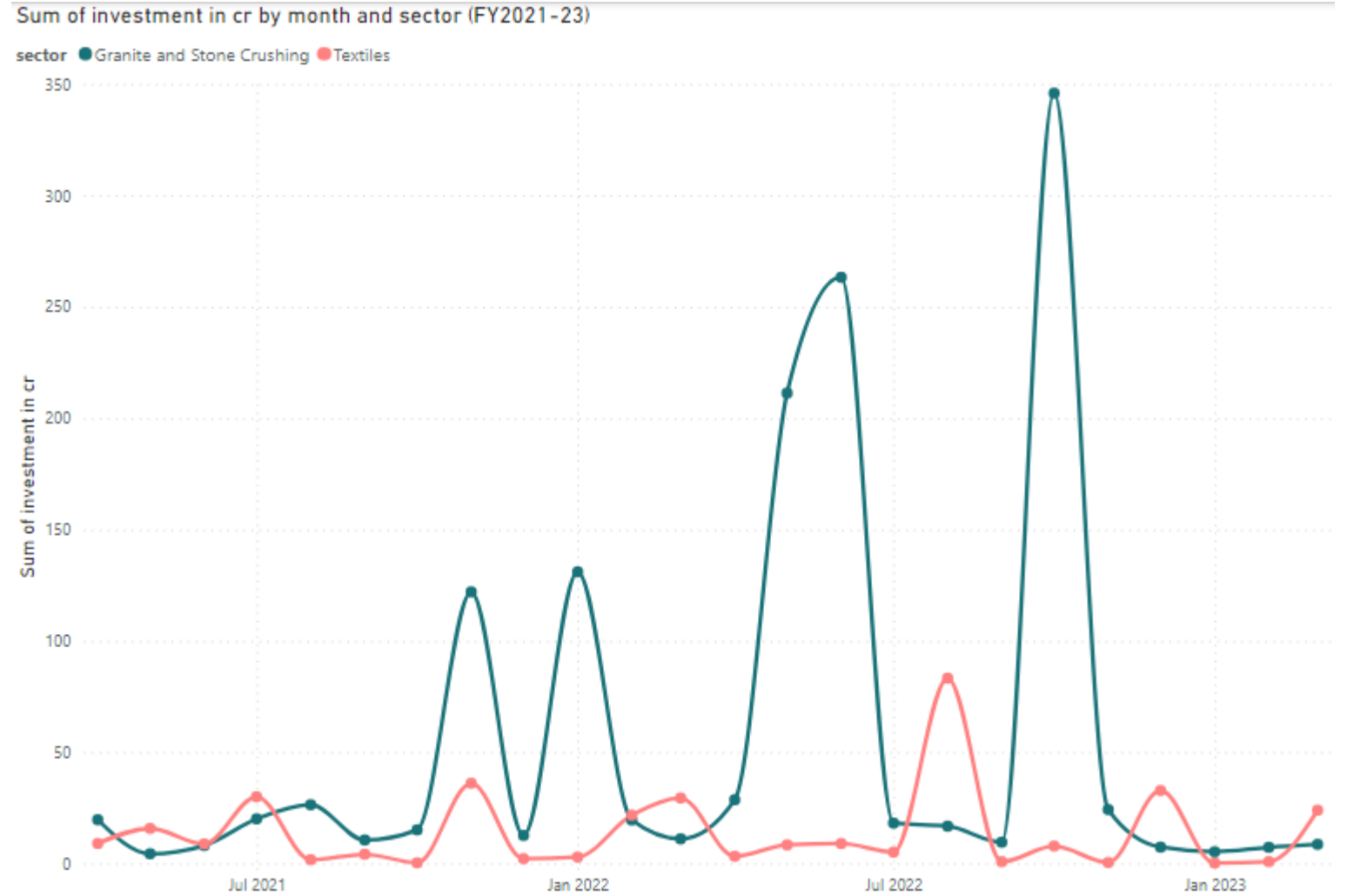
Pharmaceuticals and Chemicals  
Plastic and Rubber  
**Real Estate,Industrial Parks and IT Buildings**  
Engineering  
Food Processing  
R&D  
Beverages  
Solar and Other Renewable Energy  
  
Others  
Agro based incl Cold Storages  
Automobile  
Paper and Printing  
Granite and Stone Crushing  
Cement, Cement & Concrete Products, Fly Ash Bricks  
Electrical and Electronic Products  
Textiles  
Industrial Parks and IT Buildings  
Wood and Leather  
Fertilizers Organic and Inorganic,Pesticides,Insecticides, and Other Related



4.14K

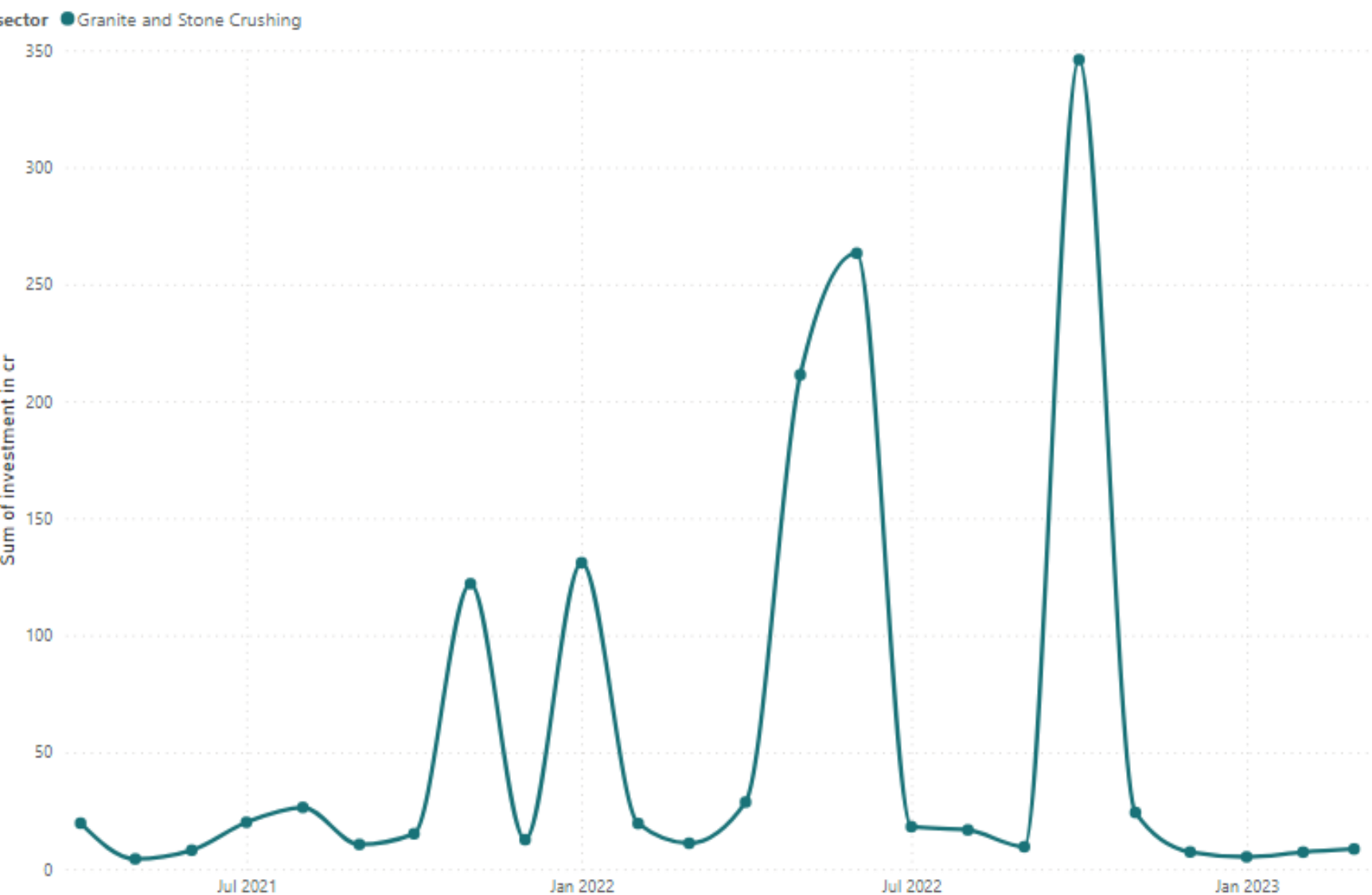
Sum of investment in cr

Two noteworthy sectors where cyclicity is observed.



# Granite and Stone Crushing

Sum of investment in cr by month and sector (FY2021-23)



- sector
- Pharmaceuticals and Chemicals
  - Plastic and Rubber
  - Real Estate, Industrial Parks and IT Buildings
  - Engineering
  - Food Processing
  - R&D
  - Beverages
  - Solar and Other Renewable Energy
  - Others
  - Agro based incl Cold Storages
  - Automobile
  - Paper and Printing
  - Granite and Stone Crushing**
  - Cement, Cement & Concrete Products, Fly Ash Bricks
  - Electrical and Electronic Products
  - Textiles
  - Industrial Parks and IT Buildings
  - Wood and Leather
  - Fertilizers Organic and Inorganic, Pesticides, Insecticides, and Other Related

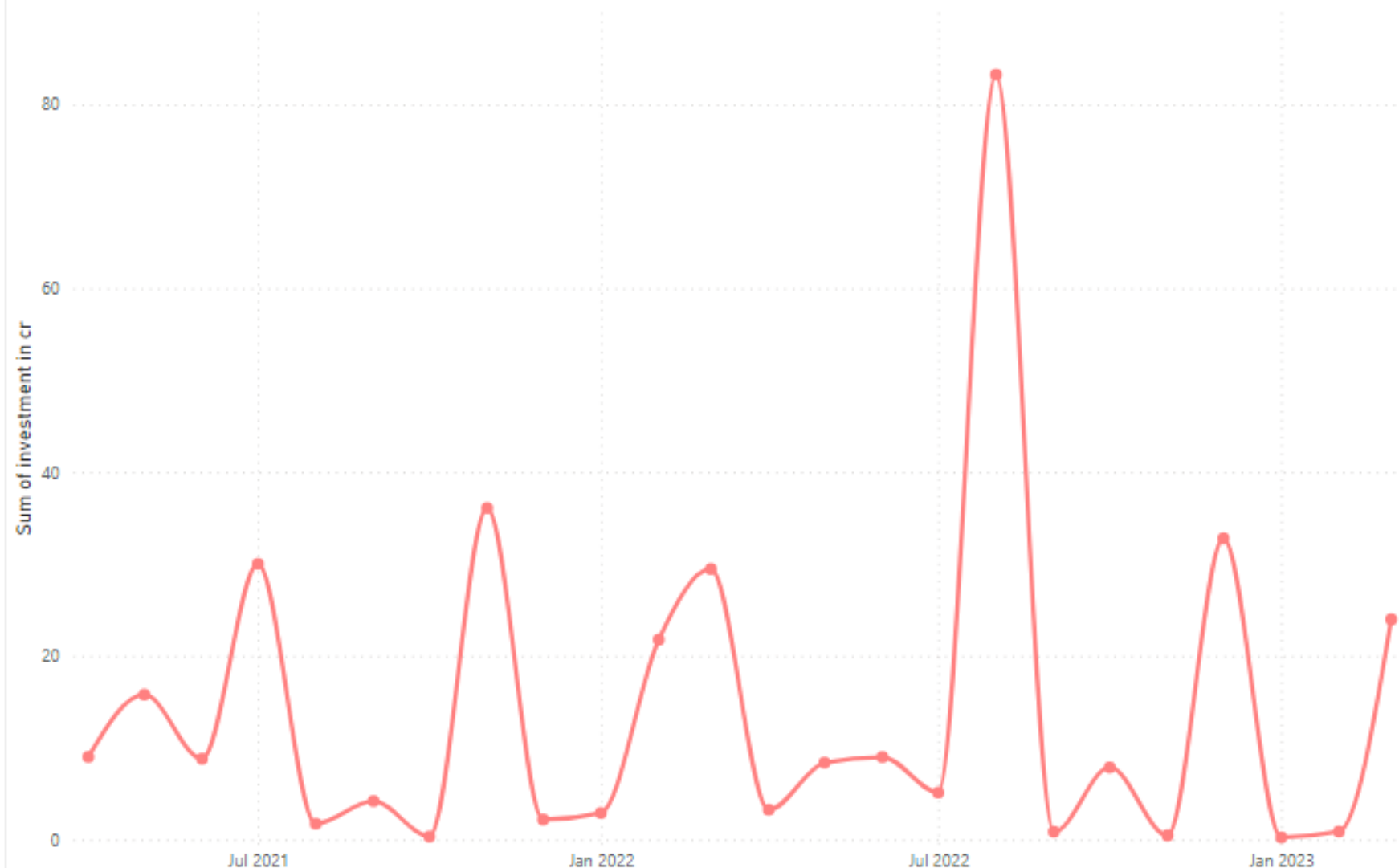
1.35K

Sum of investment in cr

# Textiles

Sum of investment in cr by month and sector (FY2021-23)

sector ● Textiles



## sector

Pharmaceuticals and Chemicals  
Plastic and Rubber  
Real Estate, Industrial Parks and IT Buildings  
Engineering  
Food Processing  
R&D  
Beverages  
Solar and Other Renewable Energy  
  
Others  
Agro based incl Cold Storages  
Automobile  
Paper and Printing  
Granite and Stone Crushing  
Cement, Cement & Concrete Products, Fly Ash Bricks  
Electrical and Electronic Products  
**Textiles**  
Industrial Parks and IT Buildings  
Wood and Leather  
Fertilizers Organic and Inorganic, Pesticides, Insecticides, and Other Related

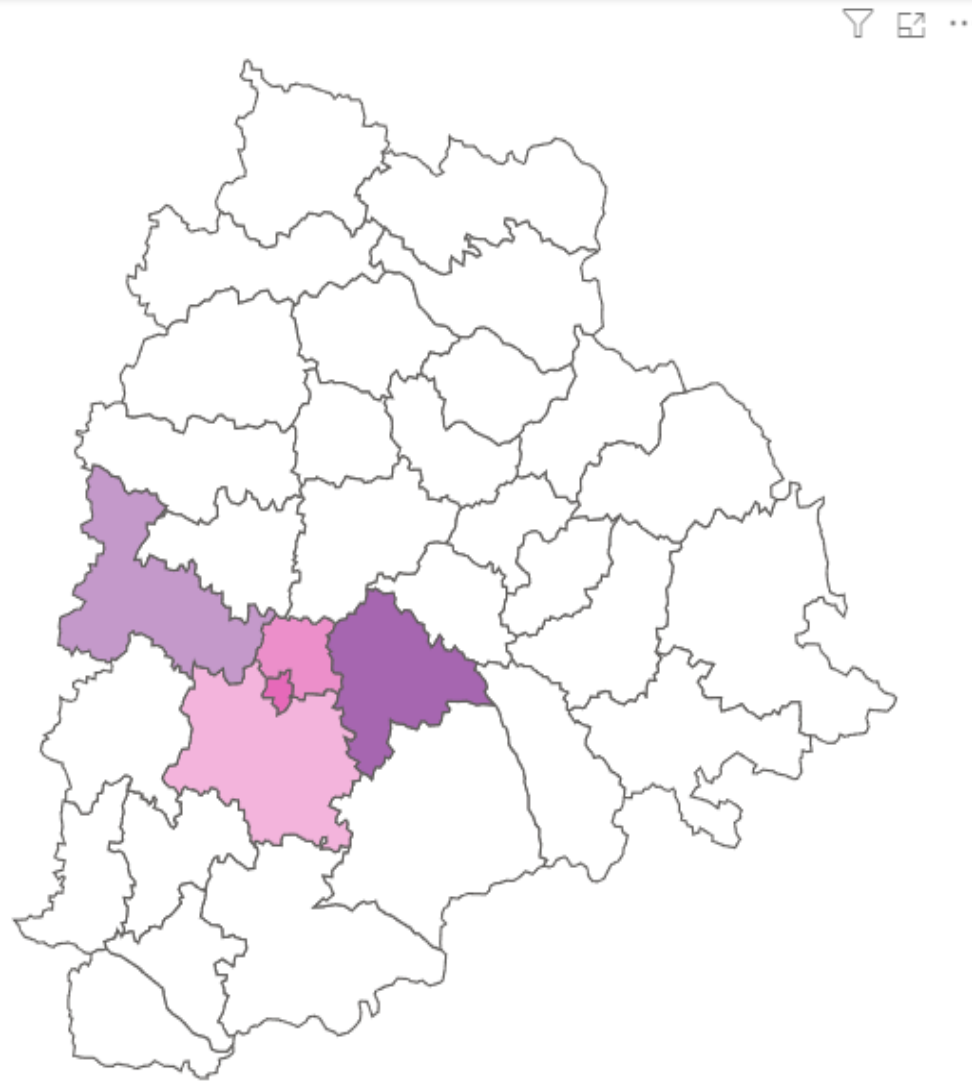
338.52

Sum of investment in cr

Knowing more about

# Telangana

If you are an investor, which districts should you focus on for buying commercial properties?



Top 5 districts to invest in commercial properties:

- Hyderabad
- Rangareddy
- Sangareddy
- Medchal Malkajgiri
- Yadadri Bhuvanagiri

Factors in favour of commercial success:

- High govt. revenue generation suggesting high commercial activity
- High density of Factories and Company Offices
- A very good density of road connectivity
- High vehicle density and good vehicle purchase trends suggests good health of overall economy.

# Noteworthy Government Policies.

- **KCR Nutrition Kit** - Telangana Government launched yet another pioneering initiative 'KCR Nutrition Kits', which is aimed at reducing Anaemia and improving haemoglobin levels in pregnant women.
- Conducted an analysis of Aug-21 v/s Aug-23 data which was available on Open Data Telangana portal.
- Found that in its first month itself, a total of 5,32,458 kits were distributed to public. This number has reached to 6,78,128 kits in the month of Aug-23. A positive growth of 27.36%.

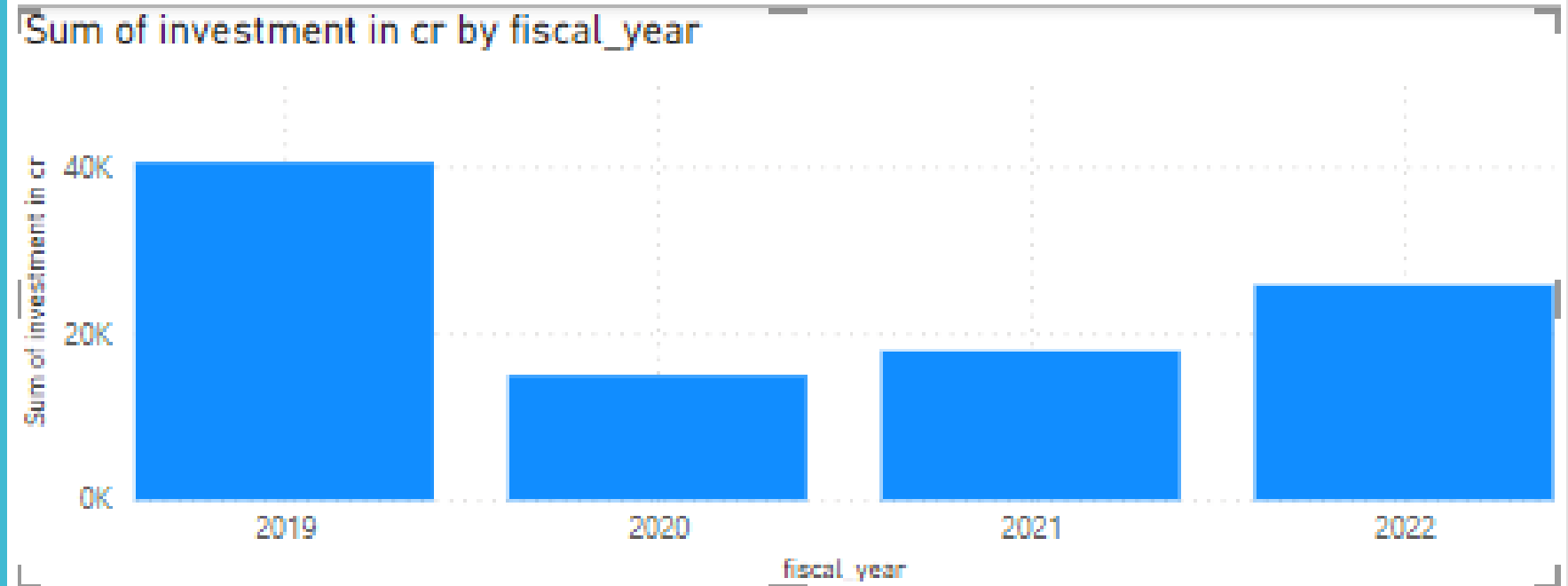


## Noteworthy Government Policies. (Contd.)

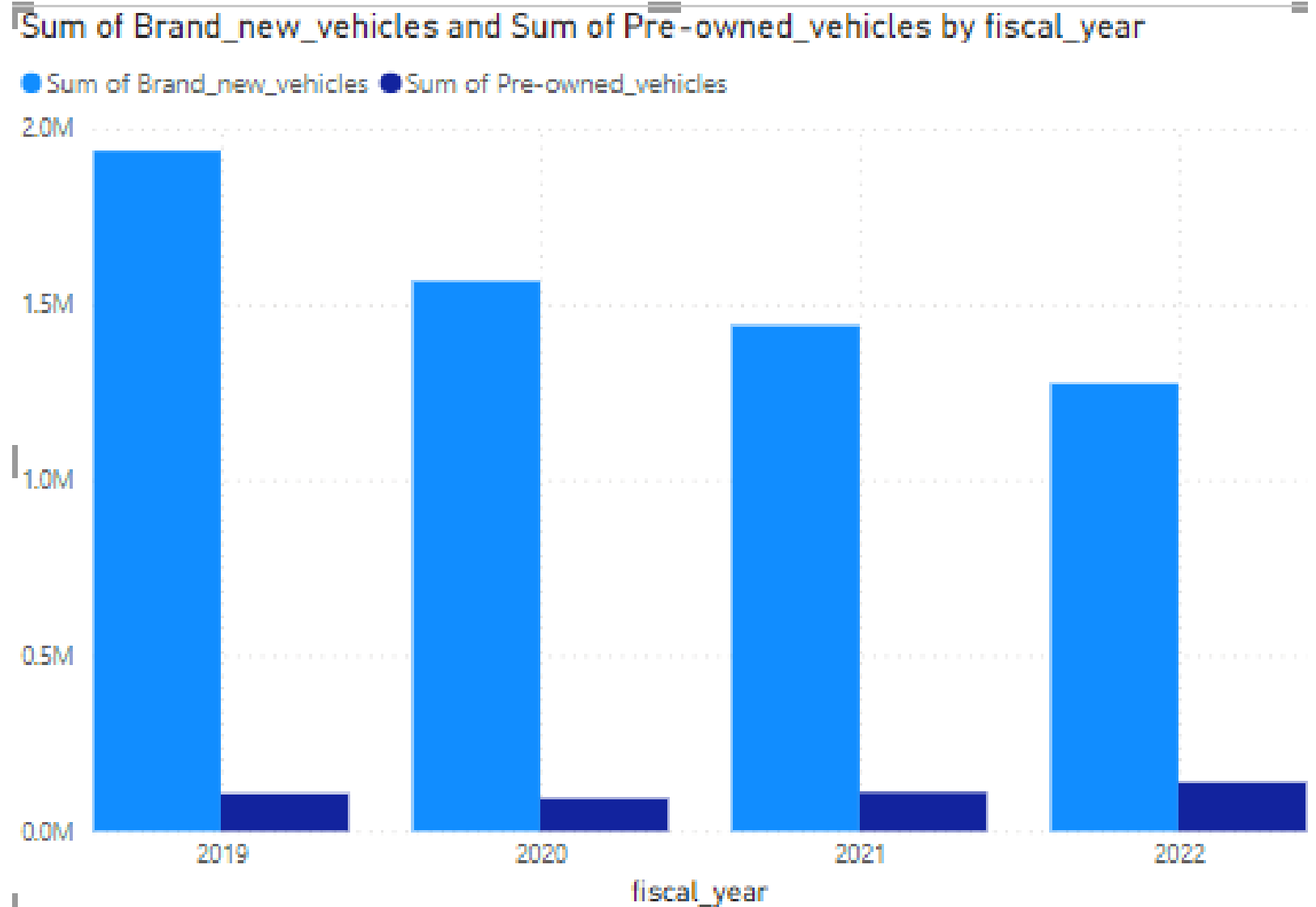
- **Mission Kakatiya** - A flagship programme of the government aimed at restoring around 46,000 tanks in five years to provide irrigation source to about 25 lakh acres spending Rs 22,000 crore.
- As of 2016 end, work to restore a total of 16942 tanks had started.
- As part of the Mission, activities like desiltation , repairing damaged sluices and weirs, restoring dilapidated tank bunds, stone revetments and plugging seepages are carried out.

# Summarising the Insights

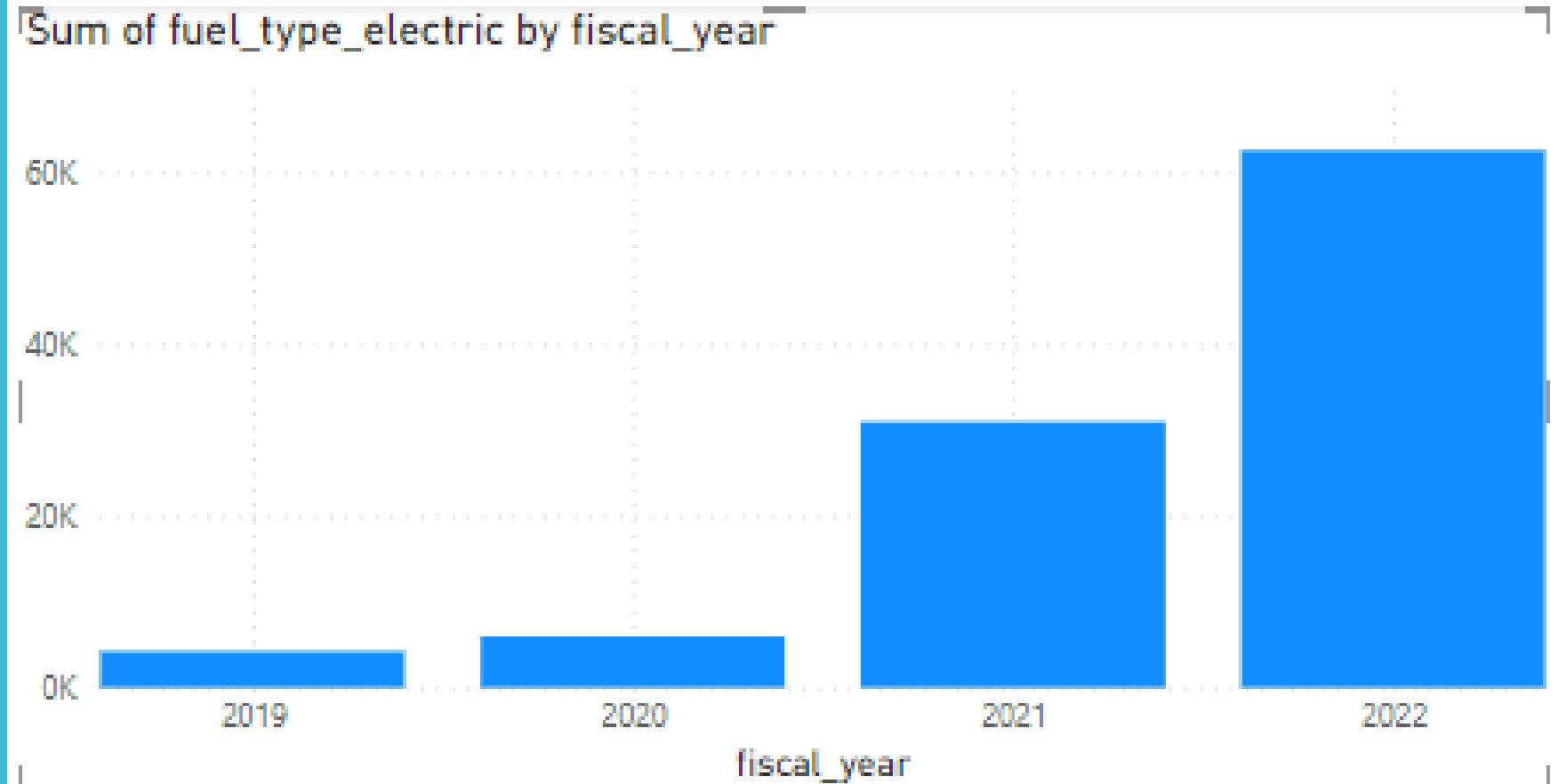
# Steady Inflow of Investments



Increase in sales of Pre-Owned Vehicles. Also, decrease in sales of new vehicles.

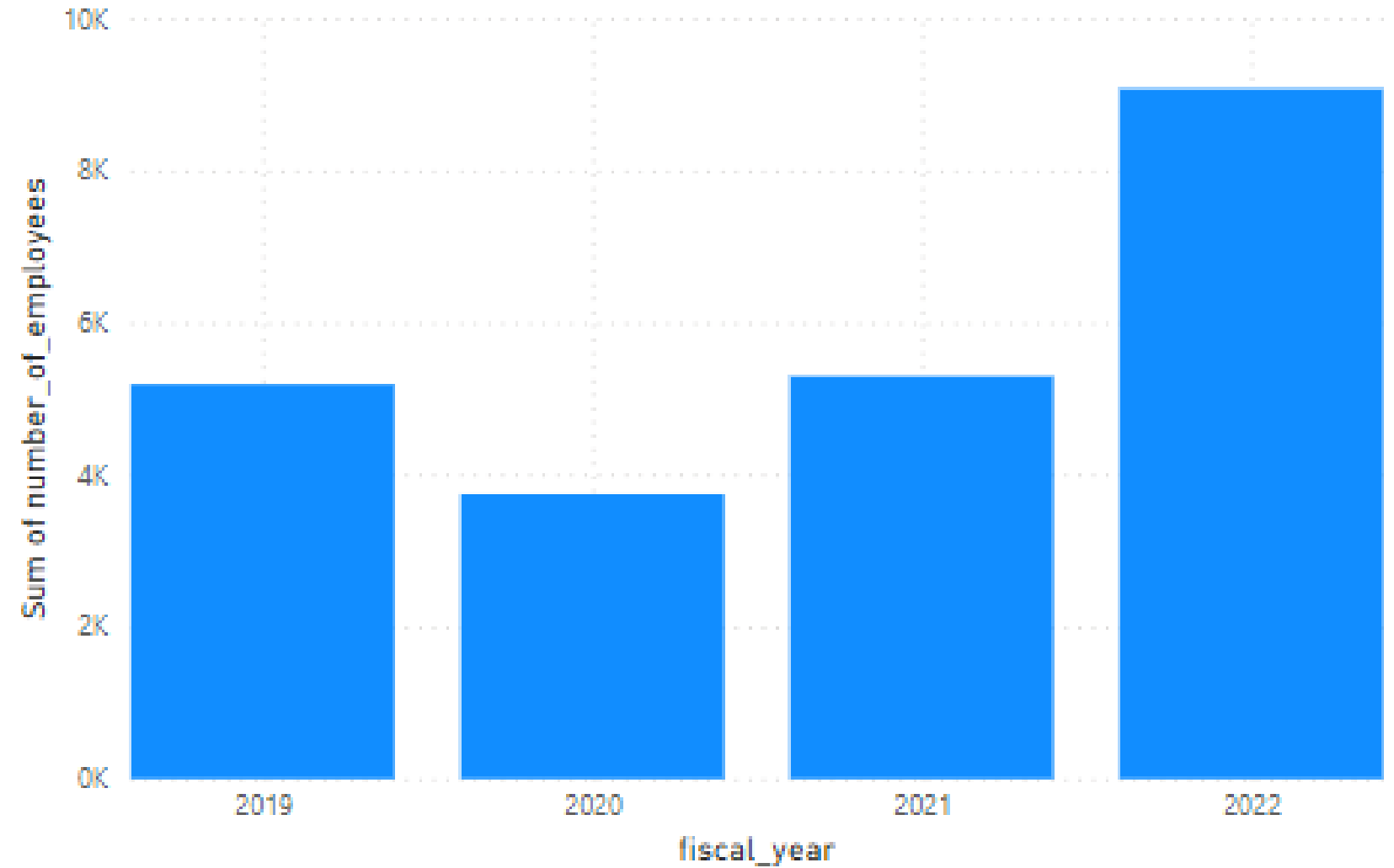


Rise in sales of  
Electrical  
vehicles.



Good  
Employment  
growth in  
Plastic and  
Rubber  
Industry

Employee count by fiscal year in Plastic & Rubber Industry



Thank you