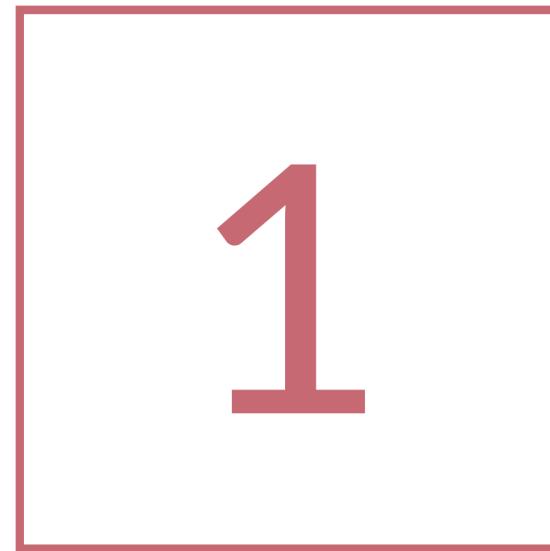


**BABU BANARASI DAS
UNIVERSITY**

**Analysis of
Employment: Growth,
Informalization and Other Issues
Using IBM Cognos Analytics**

Presented by
Aelina Taqvi

Table of content



1



2



3



4

Dashboard

Drill-through
Reports

Active Reports

Story

Objective

Here , in this analysis, we will be analyzing employment with different aspect such as by area i.e rural and urban, employment in different sectors of economy, issues in employment, growth in employment rate and GDP, informalization, etc using dashboard,report and story

Dashboard

- Employment Rate in India by Age and Gender
- Employment Rate by Region
- Employment Rate in Different Sector
- Growth of GDP and Employment
- Formalization of Workforce
- Unemployment and Other Issues



Employment
Scenario:
India

2014-2024

Employment: Growth, Informationalization and Other Issues

KEY INSIGTHS

Employment Rate: 2023, ▾ ⓘ
Age(15-64)

55.34

WORKING POPULATION PARTICIPATION RATE

Unemployment Rate: ▾ ⓘ
2023, Age(15-64)

4.17

NON-PARTICIPATING WORKING POPULATION

NEETs Rate: 2023, ▾ ⓘ
Age(15-64)

23.49

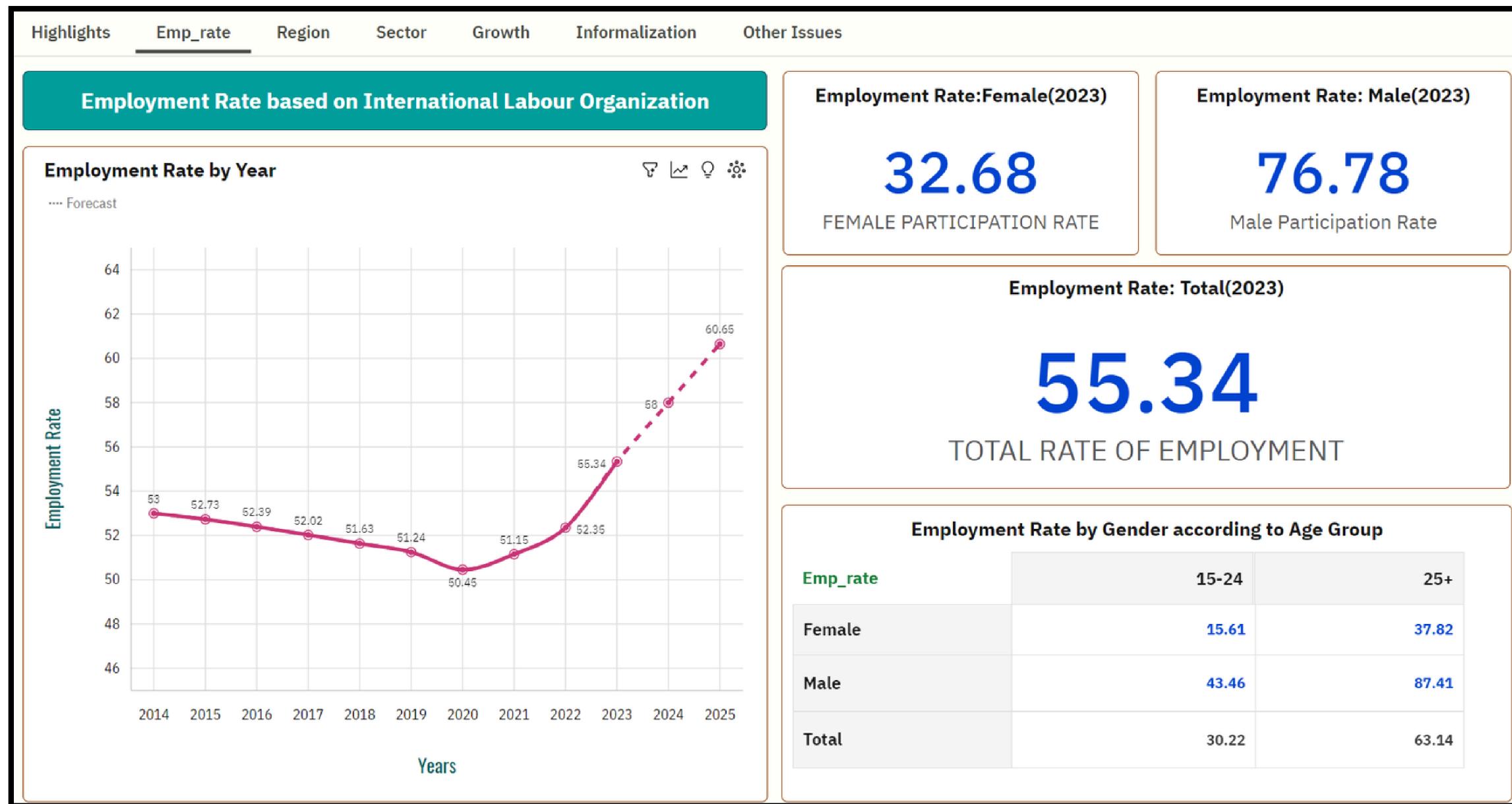
NOT IN EDUCATION, EMPLOYMENT, OR TRAINING

SPFS 2022 Covered Population Rate ▾ ⓘ

38.93

POPULATION COVERED BY SOCIAL PROTECTION FLOOR

What is the employment rate in India?



Employment Rate:

1. Current employment rate: 55.34
2. Employment rate (2014): 53
3. Forecast (2025): 60 .65

Employment rate has increased over the year and expected to reach 60.65 in 2025

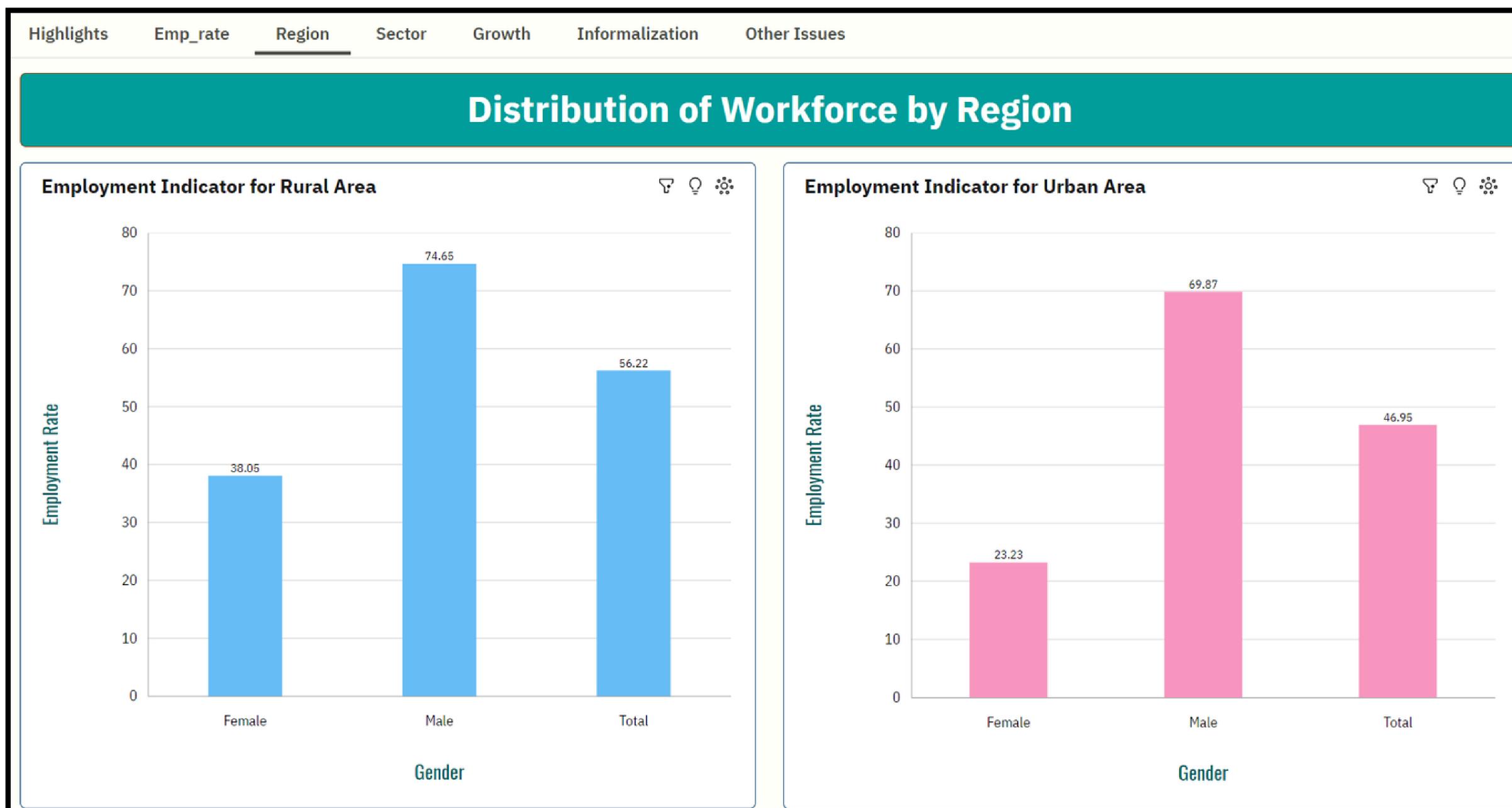
Employment Rate (Female): 32.68

Employment Rate (Male): 76.78

Female Employment Rate is low

Age group of 25+ shows greater employment rate than age group 15-24

Which area has higher employment rate, rural and urban?

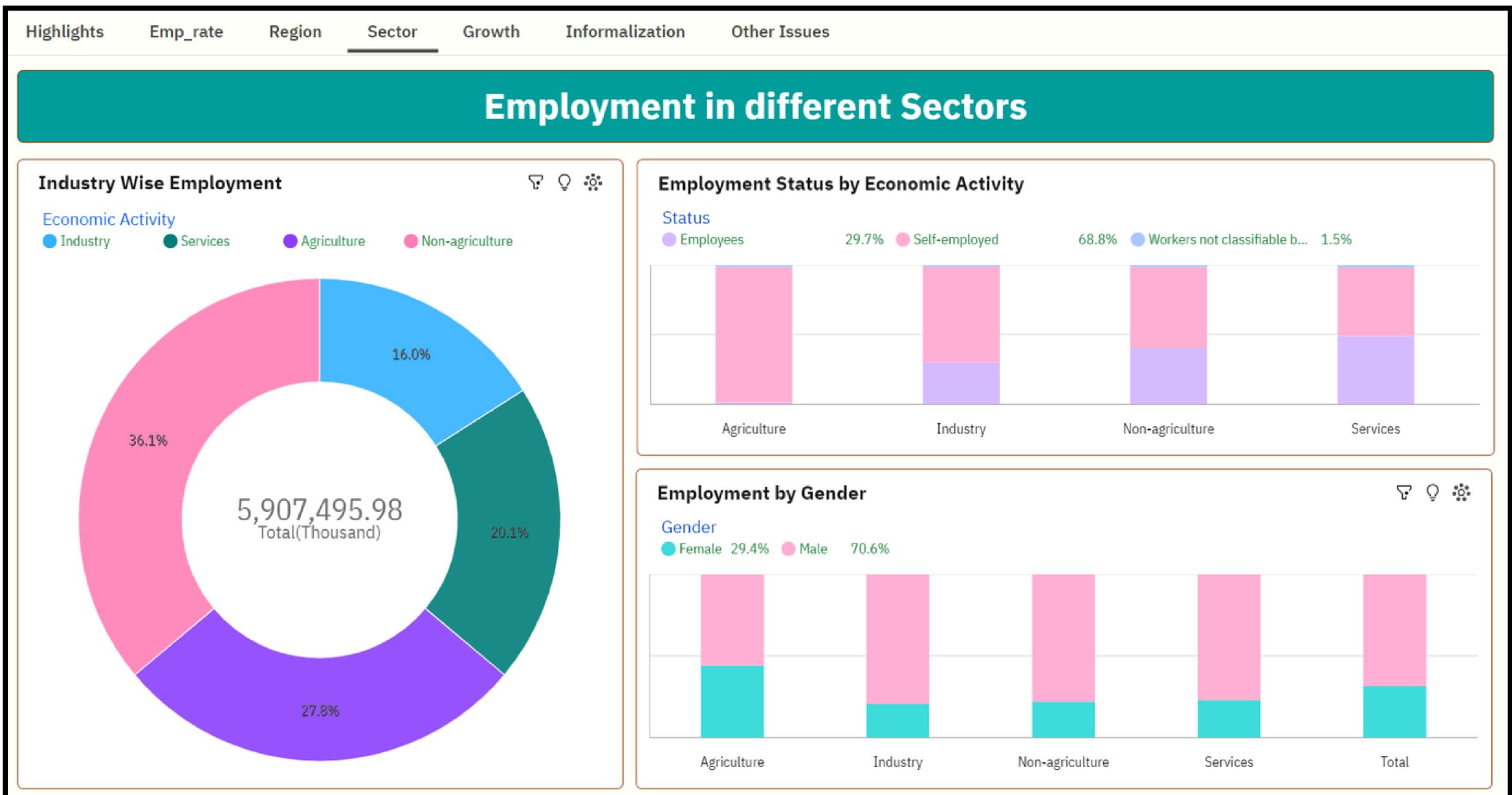


- **Rural Sector**
 1. Female employment rate(2023): 38.05
 2. Male employment rate(2023): 74.65
 3. Total employment rate(2023): 56.22

- **Urban Sector:**
 - Female employment rate(2023): 23.23
 - Male employment rate(2023): 69.87
 - Total employment rate(2023): 46.95

Employment rate in rural area is higher than the employment rate in urban sector

Which sector has highest employment rate? Status and Gender composition



- **Industry Wise Employment:**

Primary Sector contribute to major portion of employment. (63.9%)

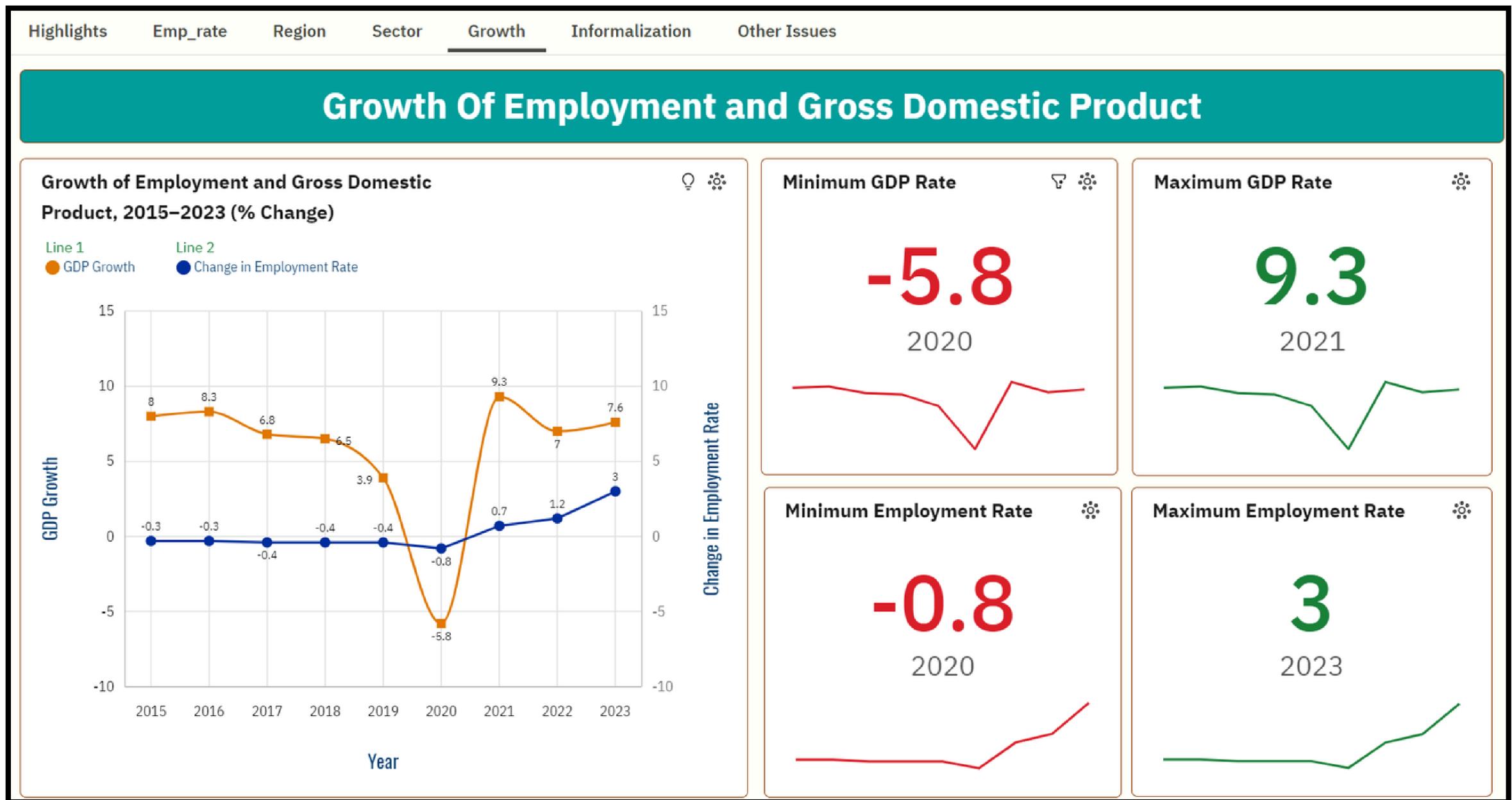
- **Employment Status in Different Industry**

In all the sectors majority of Population is Self-employed. In service sector there is almost equal rate of self-employed and hired workers.

- **Employment rate by Gender**

Men employment shows higher rate in all sectors. Women employment rate is significant in agriculture.

How employment rate impact the rate of Growth of GDP?



- **GDP growth:**
GDP growth rate has increased by [7.6%](#) in 2023

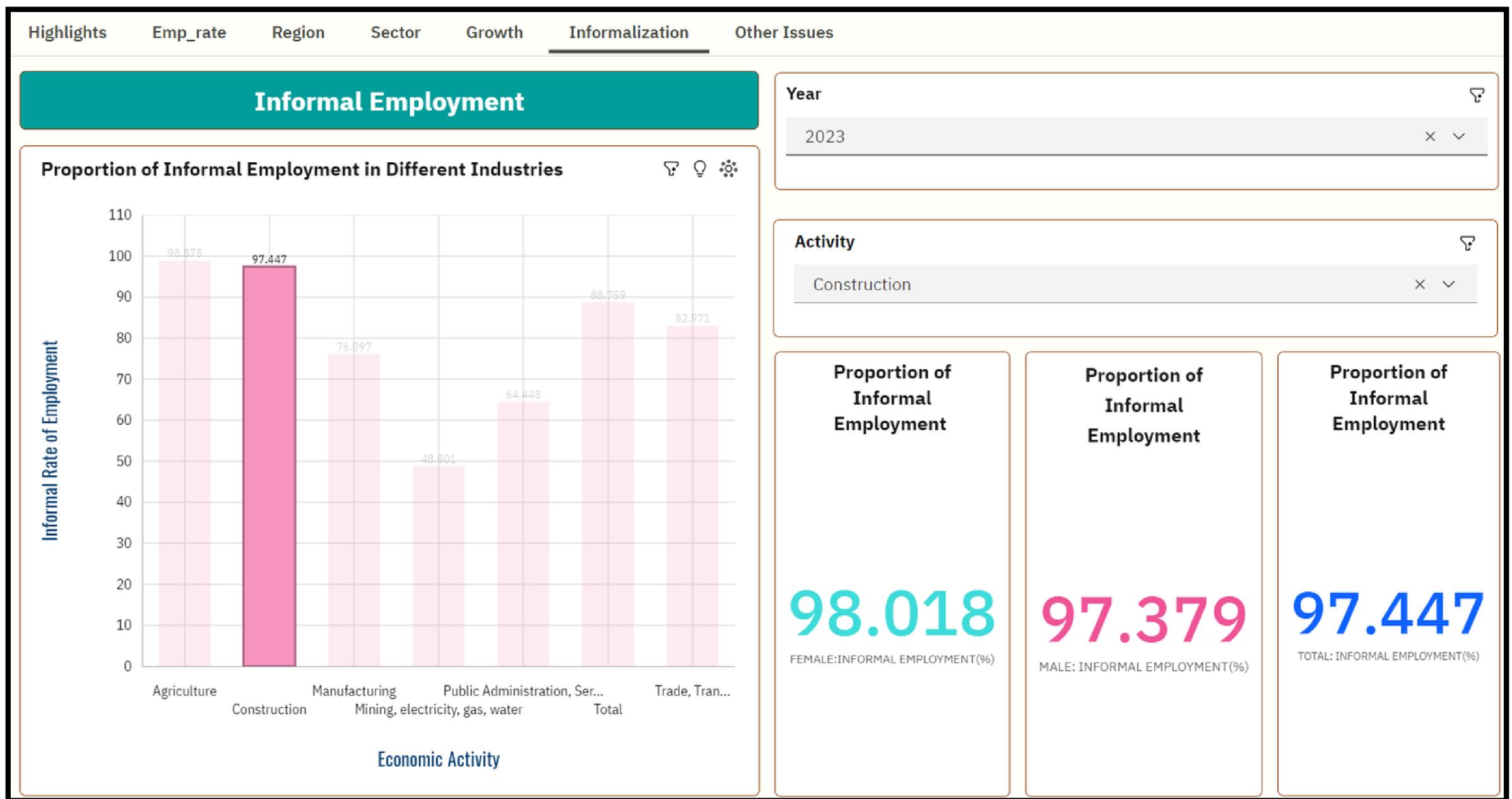
- **Employment Rate:**
Employment rate has increased by [3%](#) in 2023

There is a slight effect of employment rate on GDP

- Drop in Employment rate has caused drop in GDP and the rise of employment rate causes rise of GDP

Employment Rate has shown fastest increase from 2021 to 2024 in the decade

Is workforce shifting towards informal sector ?

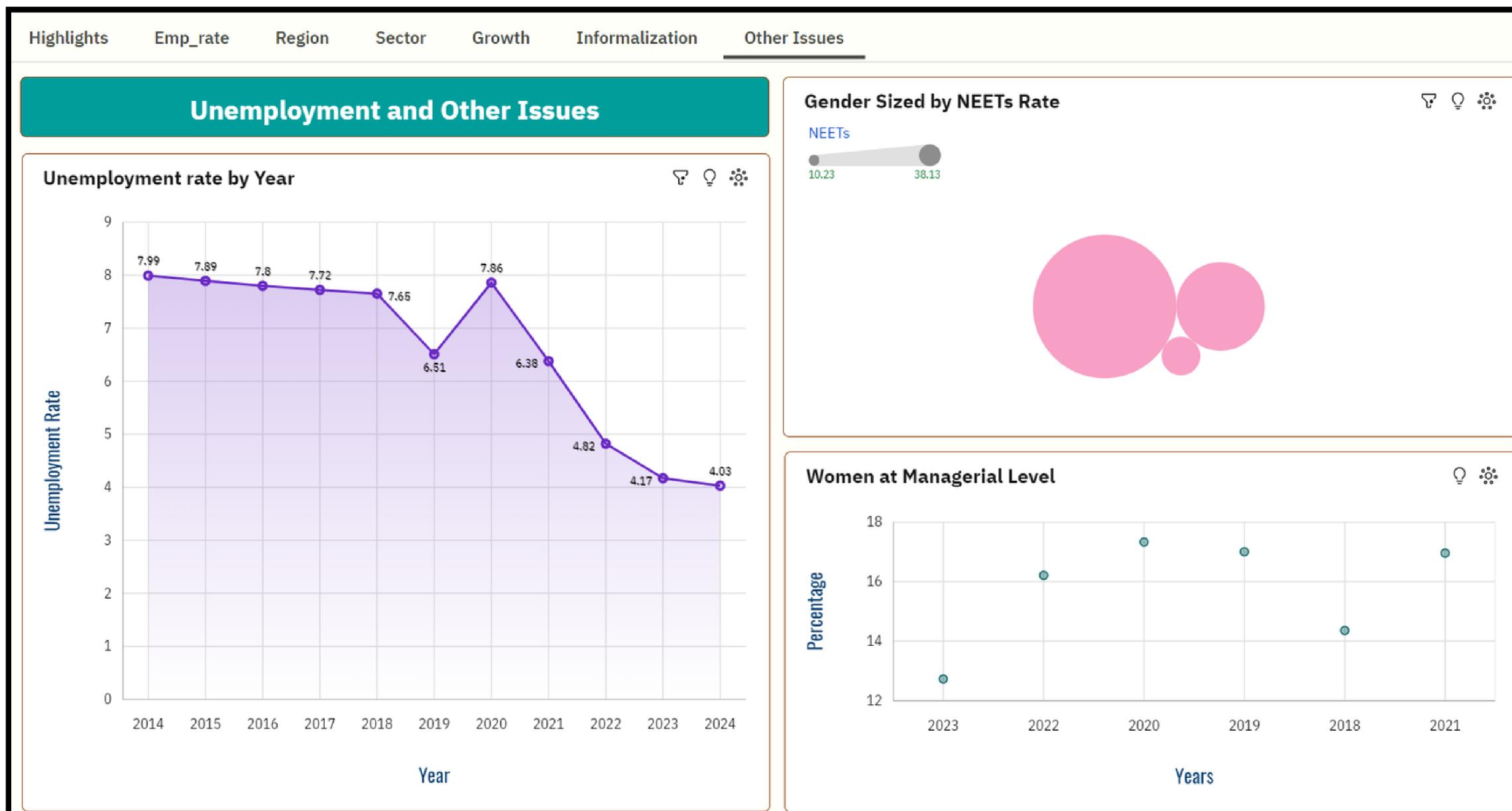


- Agriculture:98.87
- Construction:97.447
- Manufacturing:76.097
- Mining, electricity, gas and water supply:48.601
- Public administration and services:64.448
- Trade, Transport and storage:82.971
- Total:88.769

Major proportion of working population is employed in informal sector

Mining, electricity, gas and water supply sector has significant proportion of formal employment

What is Unemployment rate and What are others issues?



- **Unemployment rate**

Unemployment rate has decreasing.

In 2014 it was 7.99 and it has decreased to 4.03 in 2024

- **NEET(not in education, employment, or training)**

Female: 38%

Male: 10%

- **Women at managerial level:**

Female employment Rate at managerial level is very low

Drill-through reports

- Employment Rate by Age and Sex
- Unemployment Rate by Age and Sex
- NEETs Rate by Gender
- Proportion of Population in Informal Sector

Employment Rate by Age and Sex

Detailed report on employment rate by age and sex from year 2014 to 2024

Employment Rate by Sex and Age

Emp_rate	Female				Male				Total				Average	
	15+	15-24	25+	Average	15+	15-24	25+	Average	15+	15-24	25+	Average		
2014	27.03	33.45	30.64	30.38	77.57	96.58	88.36	87.50	53.00	66.48	60.10	59.86	59.24	
2015	26.97	32.26	30.70	29.98	77.10	95.19	87.82	86.70	52.73	65.22	59.85	59.27	58.65	
2016	26.89	30.91	30.77	29.52	76.51	93.40	87.19	85.70	52.39	63.67	59.56	58.54	57.92	
2017	26.76	29.47	30.78	29.00	75.90	91.52	86.55	84.66	52.02	62.01	59.24	57.76	57.14	
2018	26.61	28.00	30.75	28.45	75.29	89.59	85.89	83.59	51.63	60.31	58.90	56.95	56.33	
2019	26.46	26.58	30.72	27.92	74.67	87.66	85.22	82.52	51.24	58.64	58.54	56.14	55.53	
2020	25.94	25.36	30.16	27.15	73.61	85.84	83.93	81.13	50.45	57.10	57.61	55.05	54.44	
2021	26.73	24.60	31.24	27.52	74.24	85.98	84.57	81.60	51.15	56.81	58.47	55.48	54.87	
2022	27.98	26.52	32.51	29.00	75.40	86.15	85.91	82.49	52.35	57.81	59.77	56.64	56.05	
2023	32.68	15.61	37.82	28.70	76.78	43.46	87.41	69.22	55.34	30.22	63.14	49.57	49.16	
2024	31.13	14.17	36.14	27.14	76.75	42.67	87.40	68.94	54.57	29.12	62.31	48.67	48.25	
Maximum		32.68	33.45	37.82	37.82	77.57	96.58	88.36	96.58	55.34	66.48	63.14	66.48	96.58

Show data source

Unemployment Rate by Age and Sex

Detailed report on unemployment rate by age and sex from year 2014 to 2024

Unemployment Rate by Sex and Age

Unemployment rate	Female				Male				Total				Average	
	15+	15-24	25+	Average	15+	15-24	25+	Average	15+	15-24	25+	Average		
2014	8.12	21.32	5.59	11.67	7.95	22.55	5.01	11.84	7.99	22.25	5.16	11.80	11.77	
2015	8.00	22.20	5.44	11.88	7.86	23.34	4.81	12.00	7.89	23.08	4.97	11.98	11.95	
2016	7.90	23.17	5.29	12.12	7.77	24.19	4.62	12.19	7.80	23.95	4.79	12.18	12.16	
2017	7.80	24.23	5.18	12.40	7.70	25.11	4.45	12.42	7.72	24.91	4.63	12.42	12.41	
2018	7.71	25.38	5.07	12.72	7.63	26.09	4.28	12.67	7.65	25.94	4.48	12.69	12.69	
2019	6.08	23.16	3.69	10.97	6.66	22.79	3.82	11.09	6.51	22.87	3.78	11.05	11.04	
2020	6.76	24.88	4.34	11.99	8.23	24.52	5.43	12.72	7.86	24.60	5.15	12.53	12.42	
2021	5.39	19.95	3.60	9.65	6.72	21.09	4.30	10.70	6.38	20.86	4.12	10.45	10.27	
2022	4.58	18.87	2.80	8.75	4.90	17.53	2.84	8.43	4.82	17.82	2.83	8.49	8.56	
2023	4.06	15.67	2.61	7.45	4.22	15.83	2.38	7.47	4.17	15.79	2.45	7.47	7.46	
2024	4.03	15.99	2.64	7.55	4.03	15.29	2.32	7.21	4.03	15.45	2.41	7.30	7.35	
Maximum		8.115	25.383	5.593	25.383	8.226	26.093	5.426	26.093	7.992	25.937	5.158	25.937	26.093

Show data source

NEET Rate (Not in education, employment, or training)

Detailed report on NEETs rate by sex from year 2018 to 2023

Not in Education, Employment, or Training (Rate)

NEETs_rate	Female	Male	Total
2018	48.08	15.30	30.80
2019	47.57	16.03	31.20
2020	45.67	17.65	30.70
2021	43.53	13.72	28.01
2022	41.84	11.16	25.76
2023	38.13	10.23	23.49
Maximum	48.08	17.65	31.20

Show data source

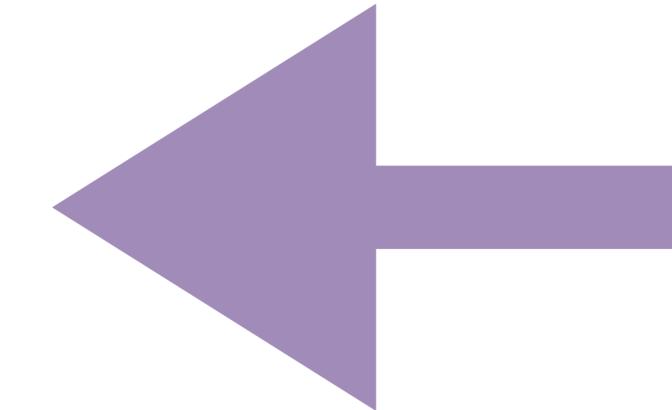
Proportion of Working Population covered by SPFS

Edit | HTML | Prompt

Prompt
Provide values for the report you are about to run.

Choose Contingency
* Contingency: Persons above retire

Contingency: Children/households receiving child/family cash benefits
Contingency: Employed covered in the event of work injury
Contingency: Mothers with newborns receiving maternity benefits
Contingency: Persons above retirement age receiving a pension
Contingency: Persons with severe disabilities collecting disability social protection benefits
Contingency: Poor persons covered by social protection systems
Contingency: Population covered by at least one social protection benefit
Contingency: Unemployed receiving unemployment benefits
Contingency: Vulnerable persons covered by social assistance



Prompt to select the contingency

People Covered by Social Protection Floor System (Rate)						
SPFS_covered		2016	2019	2020	2022	Average
Female	Contingency: Persons above retirement age receiving a pension	21.7	36.6	36.6	39.5	33.60
	Average	21.70	36.60	36.60	39.50	33.60
Male	Contingency: Persons above retirement age receiving a pension	28.9	48.8	48.8	52.6	44.78
	Average	28.90	48.80	48.80	52.60	44.78
Total	Contingency: Persons above retirement age receiving a pension	25.2	42.5	42.5	45.9	39.02
	Average	25.20	42.50	42.50	45.90	39.02

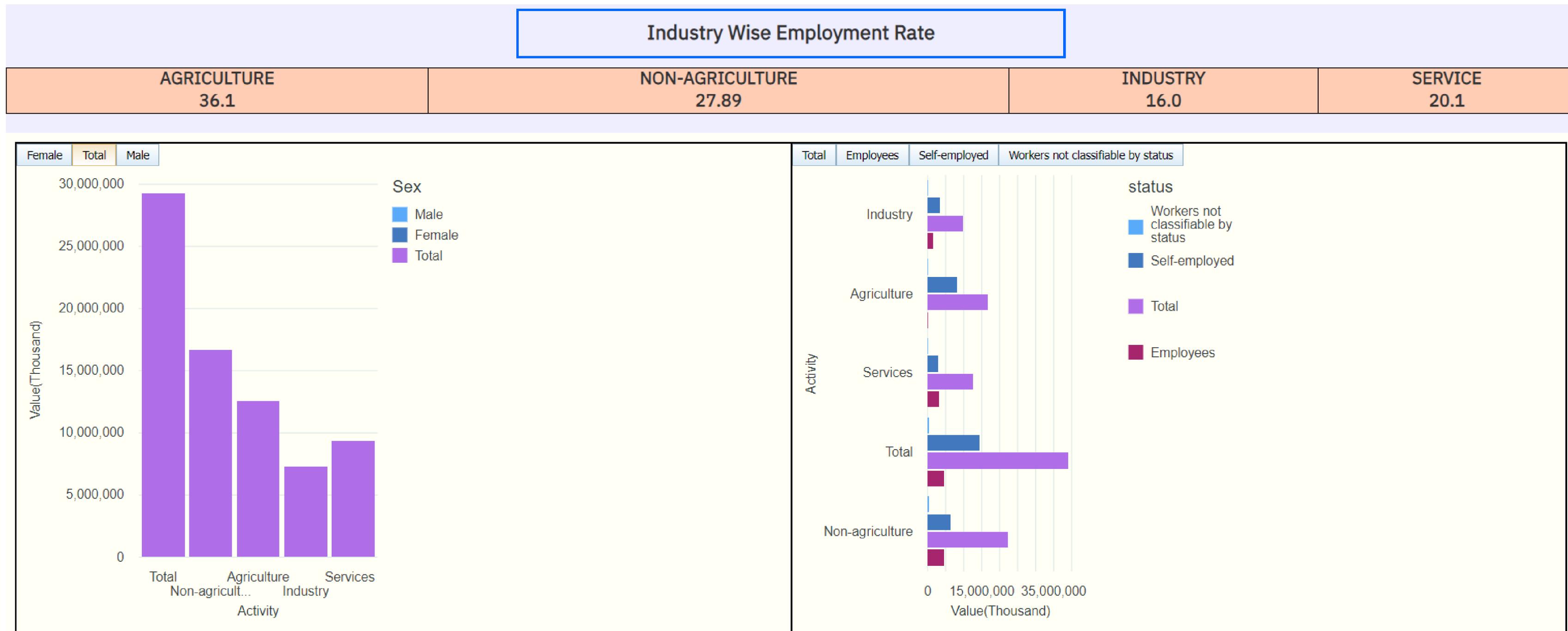
Show data source

Active Reports

- Industry Wise Employment
- Formalization of Employment

Industry Wise Employment Report

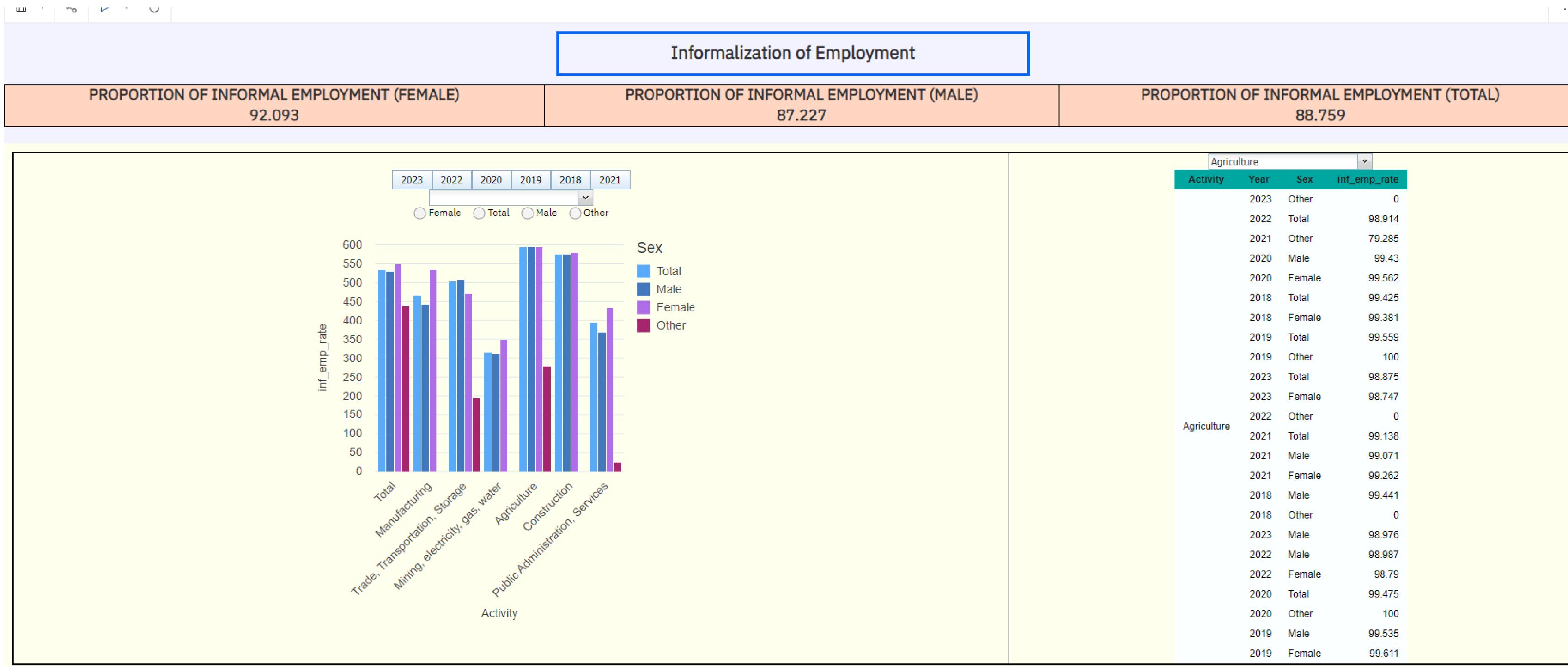
Detailed report on industry wise employment rate by economic activity and sex



Female Total Male
 Total Employees Self-employed Workers not classifiable by status

Value(Thousands)	Agriculture	Industry	Non-agriculture	Services	Total
	Total	Total	Total	Total	Total
	Self-employed	Self-employed	Self-employed	Self-employed	Self-employed
2018Q1	136,200.41	63,282.77	117,599.188	54,316.418	253,799.599
2018Q2	126,259.746	65,539.146	119,738.381	54,199.235	245,998.127
2018Q3	150,382.33	56,472.179	108,701.672	52,229.492	259,084.002
2018Q4	143,892.302	57,892.202	115,222.422	57,330.22	259,114.724
2019Q1	132,193.905	66,560.099	123,412.339	56,852.24	255,606.244
2019Q2	126,784.112	66,819.6	129,847.609	63,028.01	256,631.722
2019Q3	169,711.626	63,904.975	125,356.432	61,451.458	295,068.059
2019Q4	173,772.466	64,246.862	129,555.877	65,309.015	303,328.343
2020Q1	158,931.093	63,489.044	123,838.743	60,349.7	282,769.837
2020Q2	154,440.436	41,744.419	81,455.701	39,711.282	235,896.137
2020Q3	176,034.723	66,183.535	123,876.268	57,692.733	299,910.991
2020Q4	177,781.198	66,260.343	127,298.098	61,037.755	305,079.296
2021Q1	170,087.687	73,514.939	138,029.141	64,514.202	308,116.828
2021Q2	159,953.663	62,025.727	116,570.551	54,544.823	276,524.213
2021Q3	184,860.162	68,582.045	131,611.066	63,029.022	316,471.228
2021Q4	182,213.078	68,665.728	132,955.699	64,289.971	315,168.777
2022Q1	172,845.232	75,326.937	141,464.531	66,137.594	314,309.763
2022Q2	158,264.627	79,315.68	146,793.41	67,477.731	305,058.037
2022Q3	217,708.821	101,412.799	168,195.882	66,783.083	385,904.703
2022Q4	194,079.712	79,694.788	149,263.602	69,568.814	343,343.314
2023Q1	185,264.207	82,000.928	156,409.5	74,408.572	341,673.707
2023Q2	180,506.134	84,417.074	156,655.021	72,237.948	337,161.156
2023Q3	219,959.351	80,145.801	155,023.1	74,877.3	374,982.452
2023Q4	212,439.064	78,630.19	149,311.589	70,681.399	361,750.652

Informalization of Employment Report



Story

Story Video

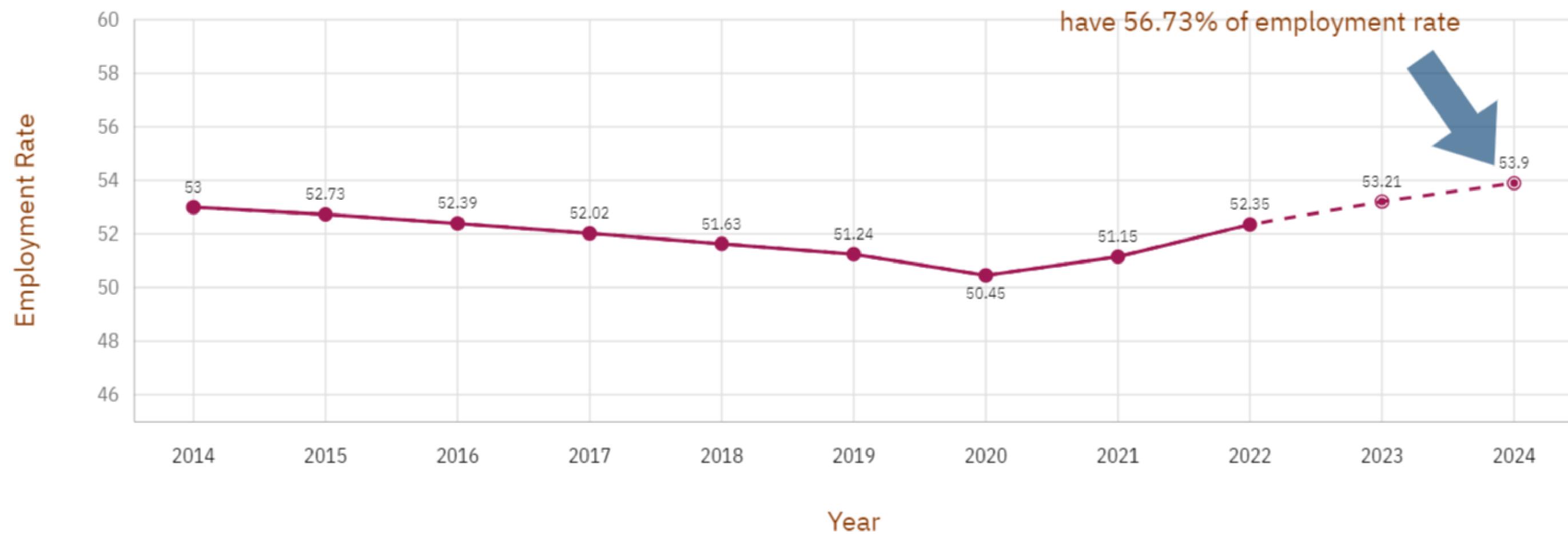
Employment: Growth, Informalization and Other Issues

2014-2024

Employment Rate

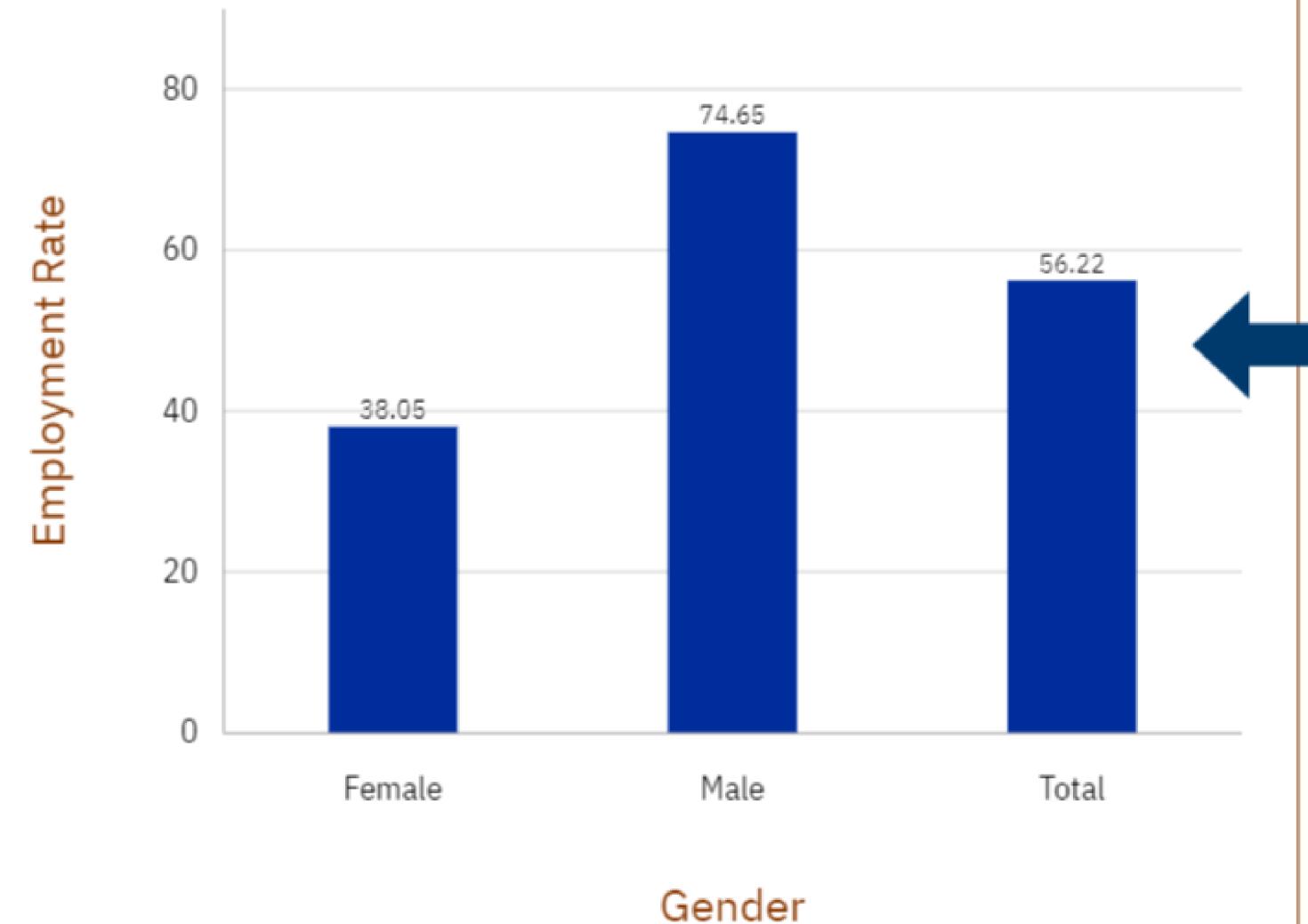
Employment Rate

.... Forecast



Employment by Region

Employment in Rural Area



Female Employment Rate in Rural Area is higher than that of Urban Area

Male Employment Rate in Rural Area is also higher than that of Urban Area

Total Employment Rate in Rural Area is higher than that of Urban Area

Industry Wise Employment

Industry Wise Employment

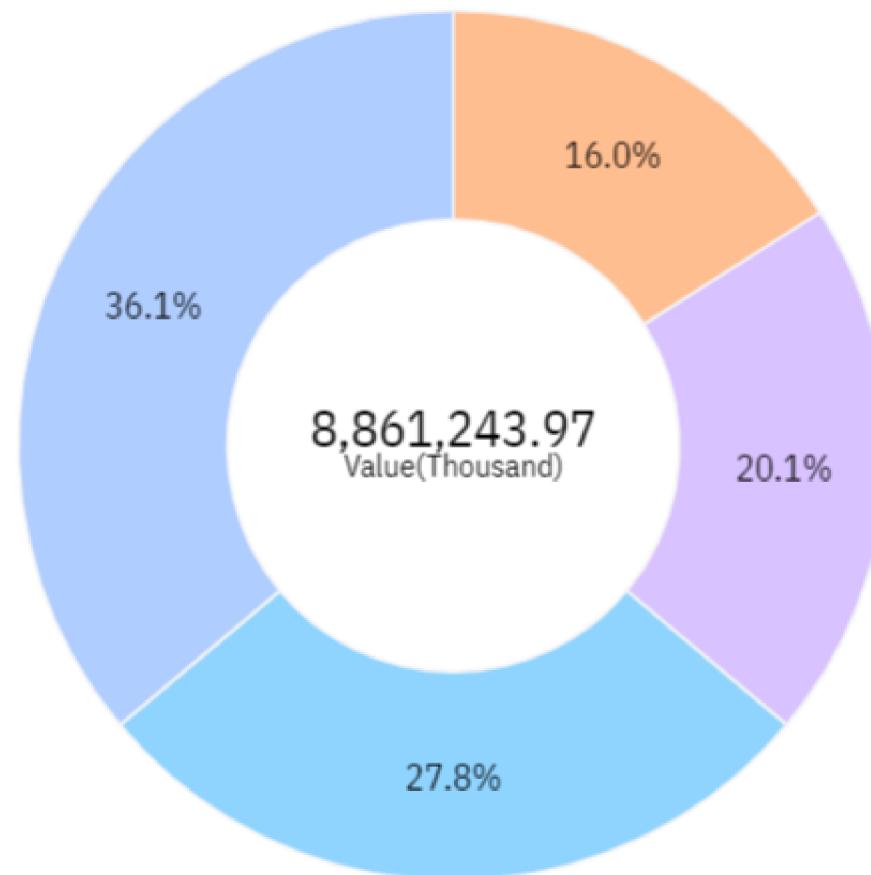
Activity

Industry

Services

Agriculture

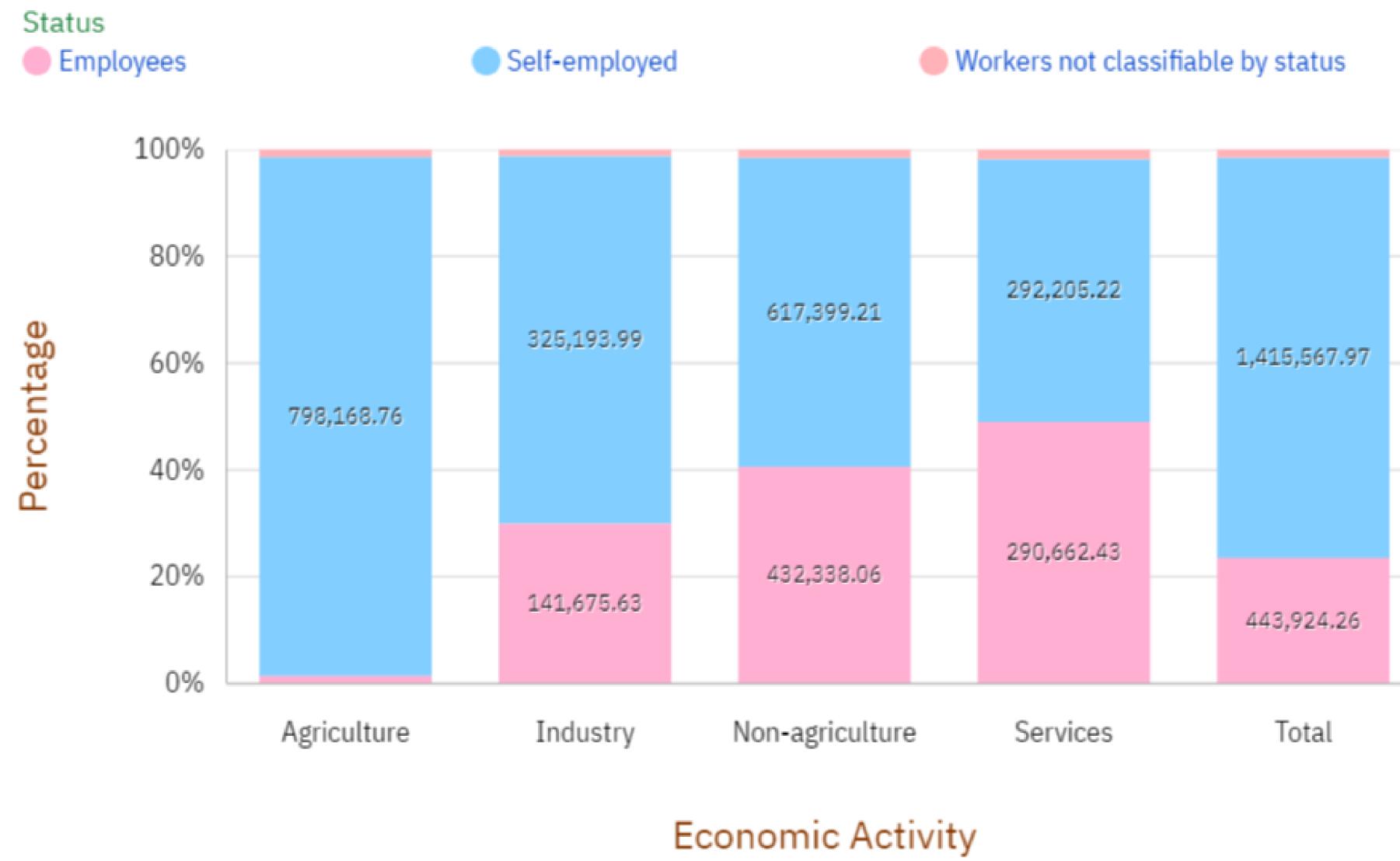
Non-agriculture



Major portion of Population is employed in Primary Sector
i.e. Agriculture and Non-Agriculture

Industry Wise Employment

Status of Worker in Different Industry



Most of the Population is Self employed Specially in Agriculture activity

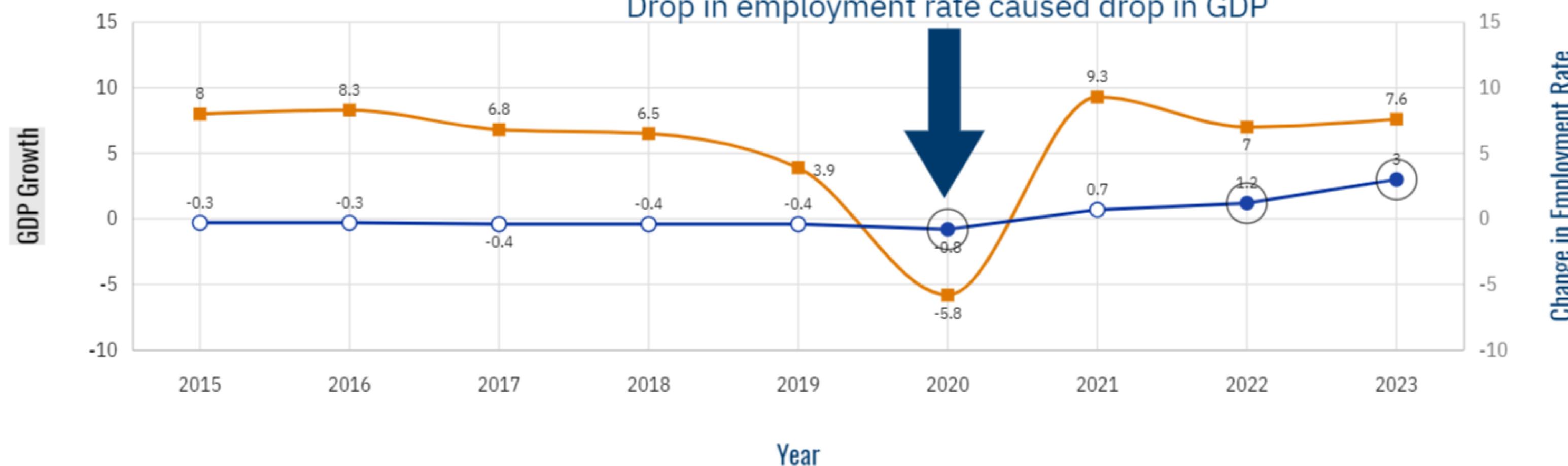
Most of the hired worker are in Service sector

Growth of Employment and GDP

Growth of Employment and Gross Domestic Product, 2015–2023 (% Change)

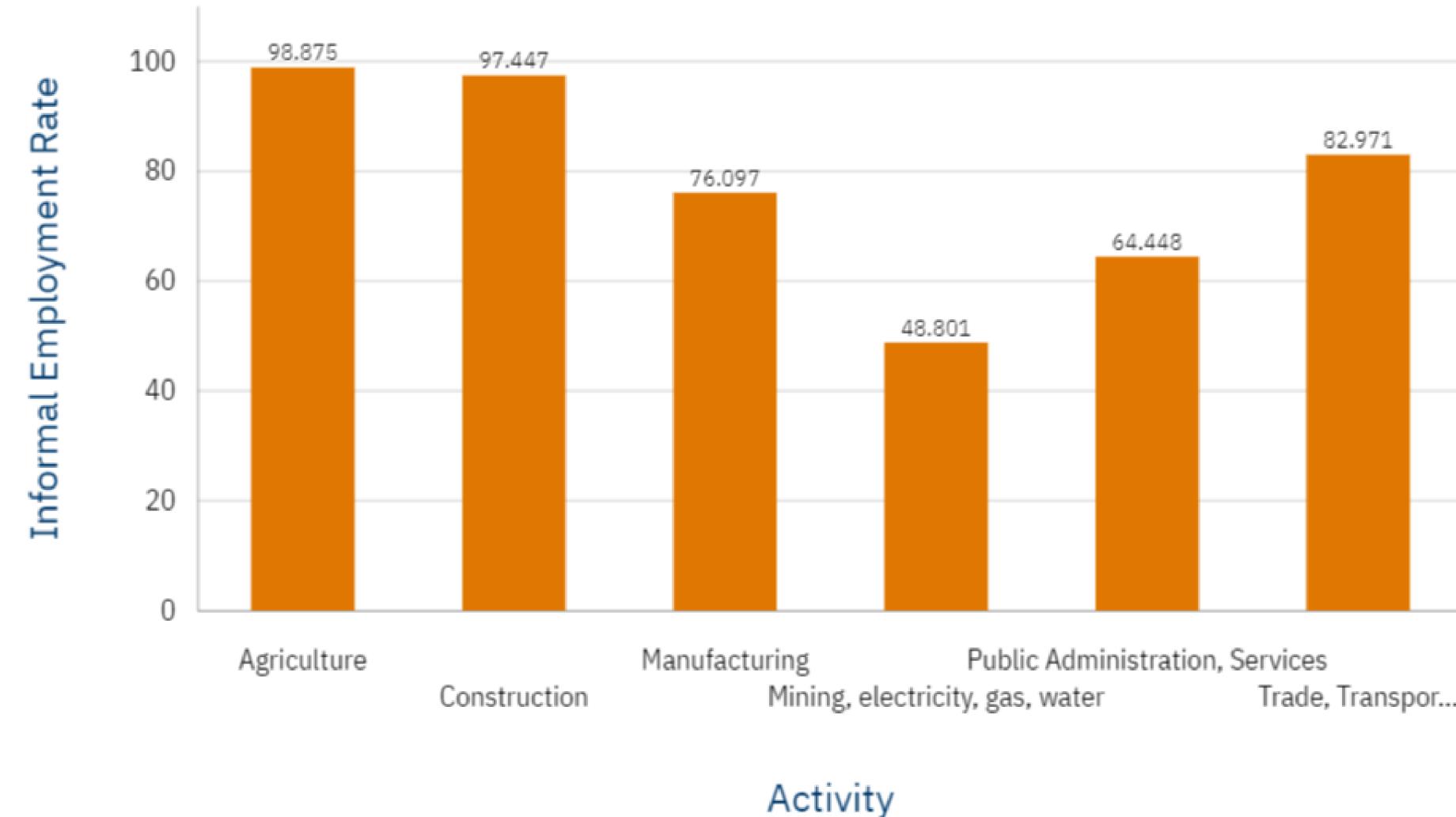
Line 1
● GDP Growth

Line 2
● Change in Employment Rate



Informal Employment in Different Industry

Rate of Informal Employment



In most of the Industries rate of informal employment is very high

In Public Administration, there is moderate rate of informal employment

There is significant rate of Formal employment in Mining, Electricity, Gas and Water Supply

Conclusion

This project on employment growth informalization and other issue has provided significant insights into the employment scenario in India

This findings and insights have practical implications, including Economic planning and policy making, Labor market insights, Social welfare programs, Regional development.

Thank You

https://drive.google.com/drive/folders/1F_VwEgrc_NFN1c1RjxdTSBS4s2ym7rWZ?usp=sharing

Aelina Taqvi
Babu Banarsi Das University
e-mail: aelina.t1602@gmail.com