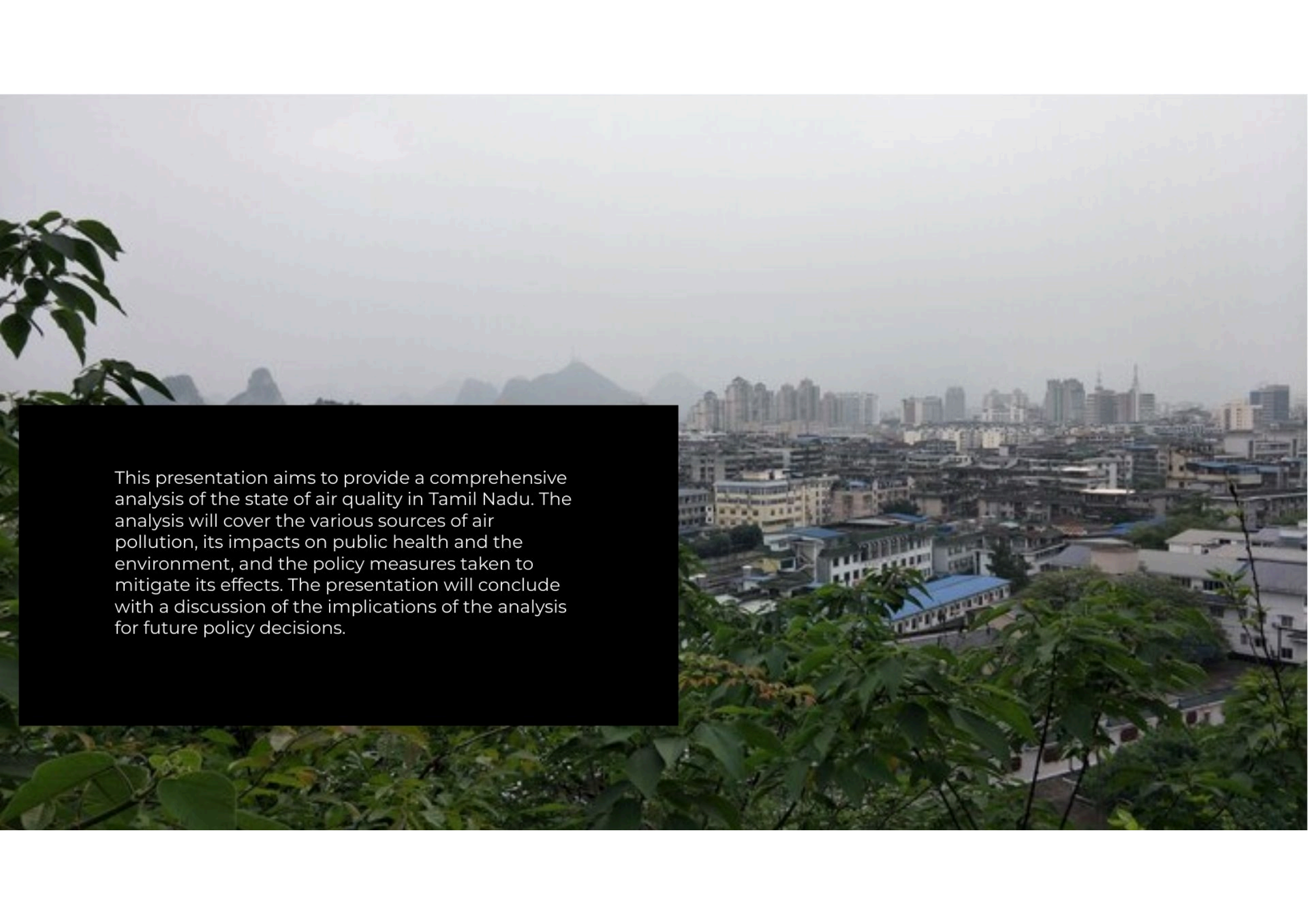


Air Quality Analysis In Tamilnadu





This presentation aims to provide a comprehensive analysis of the state of air quality in Tamil Nadu. The analysis will cover the various sources of air pollution, its impacts on public health and the environment, and the policy measures taken to mitigate its effects. The presentation will conclude with a discussion of the implications of the analysis for future policy decisions.

Impacts on
Public Health

About the project

Exposure to air pollution has been linked to a range of health problems, including respiratory diseases, cardiovascular diseases, and cancer. Children, the elderly, and low-income communities are particularly vulnerable. The economic costs of air pollution, including healthcare costs and lost productivity, are also significant.



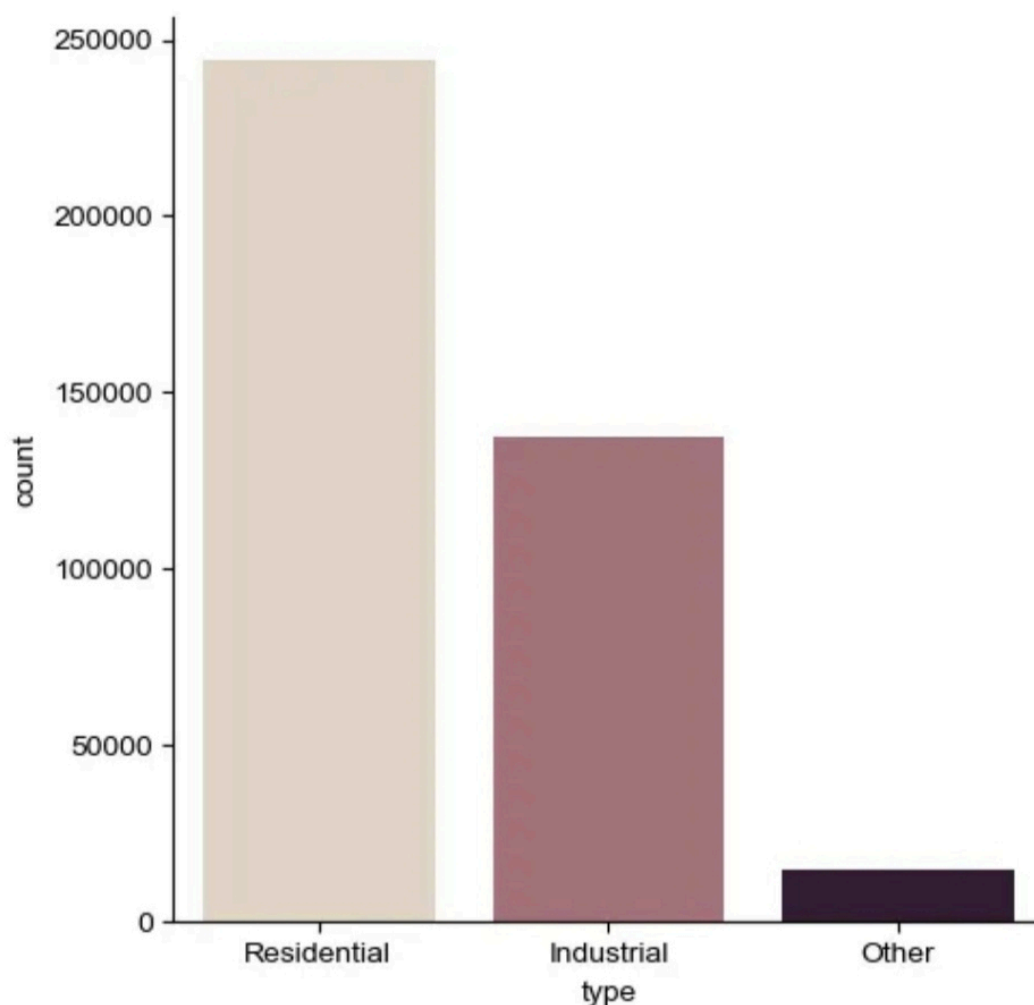
Now let us see how our data looks :

```
In [3]: df.info()
<class 'pandas.core.frame.DataFrame'>
Int64Index: 396157 entries, 0 to 435738
Data columns (total 10 columns):
state          396157 non-null object
location       396157 non-null object
type           396157 non-null object
so2            396157 non-null float64
no2            394176 non-null float64
rspm           366514 non-null float64
spm            167983 non-null float64
pm2_5          9195 non-null float64
date           396157 non-null datetime64[ns]
year           396157 non-null int32
dtypes: datetime64[ns](1), float64(5), int32(1), object(3)
memory usage: 31.7+ MB
```

Dataset after deleting the rows which had null values in
so2, location

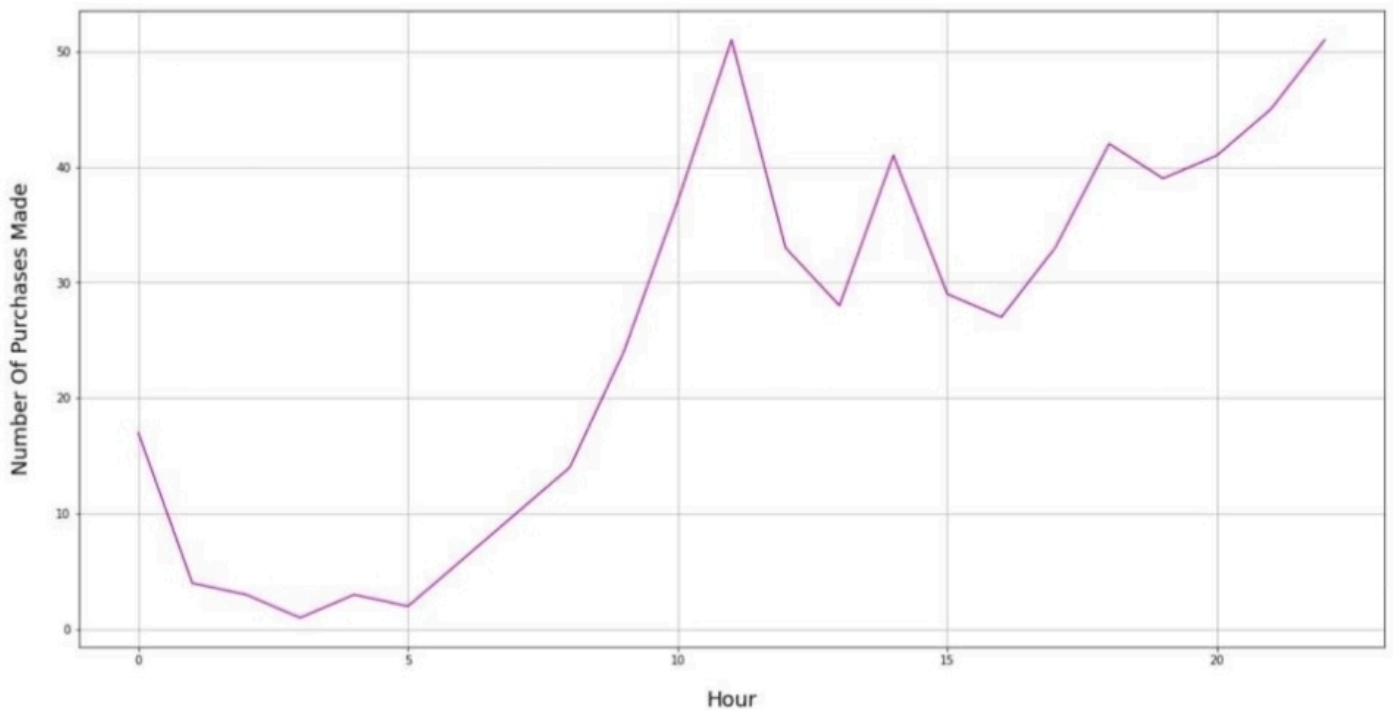
```
In [11]: df['type'].value_counts()
Out[11]:
Residential    244017
Industrial     137420
Other           14724
Name: type, dtype: int64
```

Now it looks much better and cleaner. We can visualize the *type* attribute using cat plots.



the plot of Number of entries vs Categories in the type column

Sales Happening Per Hour (Spread Throughout The Week)



The results are indicative of how sales typically peak in late evening hours prominently, and this data can be incorporated into business decisions to promote a product during that time specifically.

Environmental Impacts

01. About the project

02. Project Timeline

03. Defining a target

04. Where we are



Conclusion **Where we are**

In conclusion, the analysis presented in this presentation highlights the serious nature of air pollution in Tamil Nadu and the urgent need for action. The government, industry, and individuals all have a role to play in reducing air pollution and its harmful effects. By working together, we can create a cleaner and healthier environment for all.





THANK YOU