



Prepared by: Rohit Shrestha (c3502400)

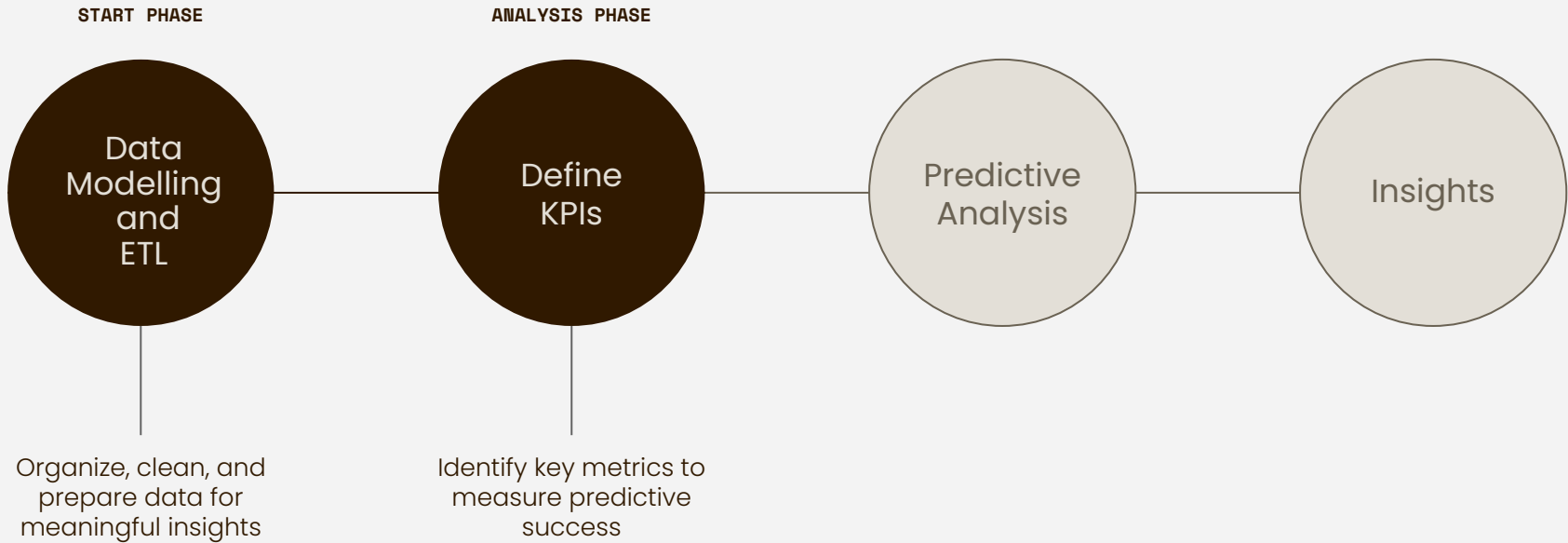
For: Tony Chappel, CEO, NSW Environment Protection Authority

EPA Office Performance Analysis and Forecasts

Index

01	Intro
02	Workflow
03	Unraveling Data
04	KPIs
05	Dashboard
06	Analysis & Forecasts
07	Recommendations

Workflow



Unraveling Data

1. Only officers with incentives are expected to meet compliance targets, shaping how performance is evaluated.
2. The price for activities was randomly generated based on the monitoring date to simulate market variability.
3. Unique identifiers for officers, sites, and activities were used to ensure that no duplications skewed the results.
4. Monitoring date is broken down to year, month, day for better data analysis

KPIs

1. Average Community Feedback Rating
2. Average Pollution Level Detected
3. Compliant Rate
4. Total Expenses
5. Compliant activities by month

Dashboard

6

Overall Compliance Rate:

0.508315933

Average Pollution Level:

253.1701

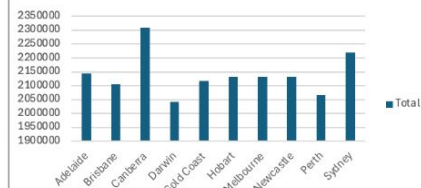
Average Community Rating:

3.005328

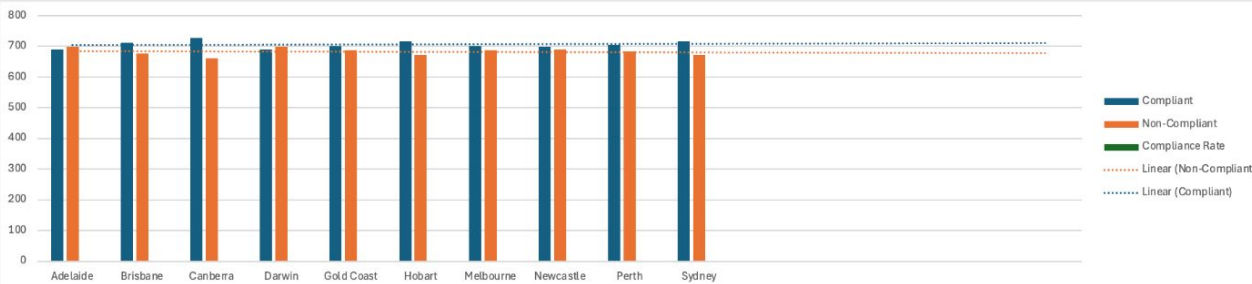
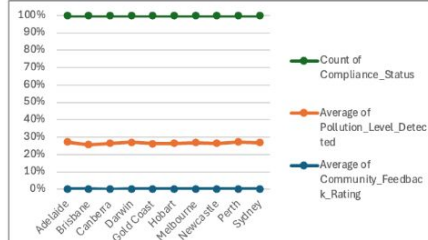
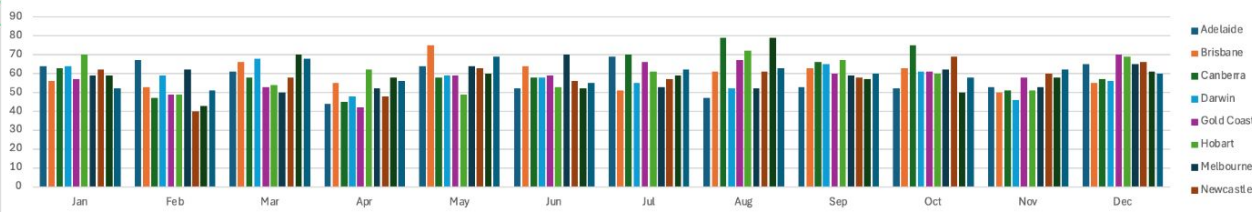
Total Activities:

13889

Total Expenses Based on Offices



Monthly Analysis and Forecasting for Compliance Status for Different Office Locations



Compliance_Status

Compliant

Non-Compliant

Office_Location

Adelaide

Brisbane

Canberra

Darwin

Gold Coast

Hobart

Melbourne

Dashboard

7

Overall Compliance Rate:

0.508315933

Average Pollution Level:

253.1701

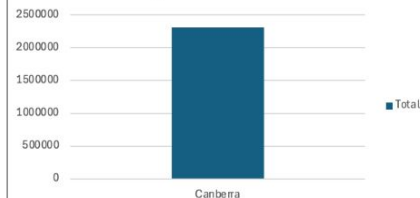
Average Community Rating:

3.005328

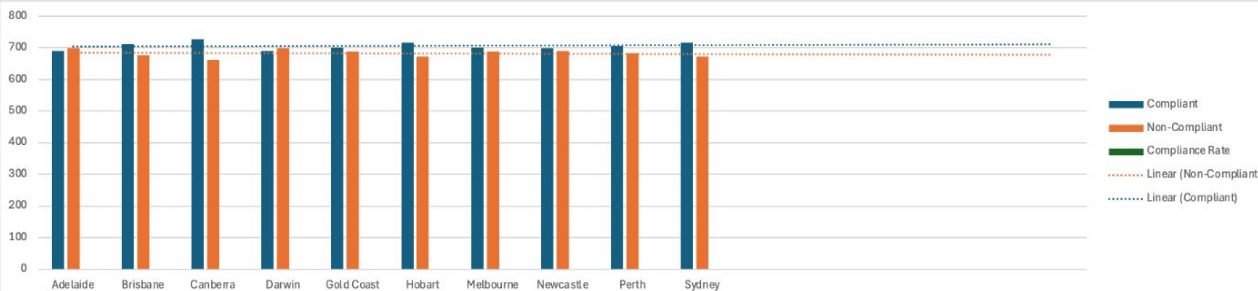
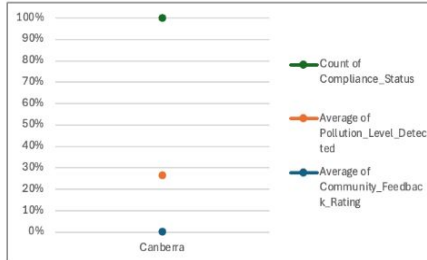
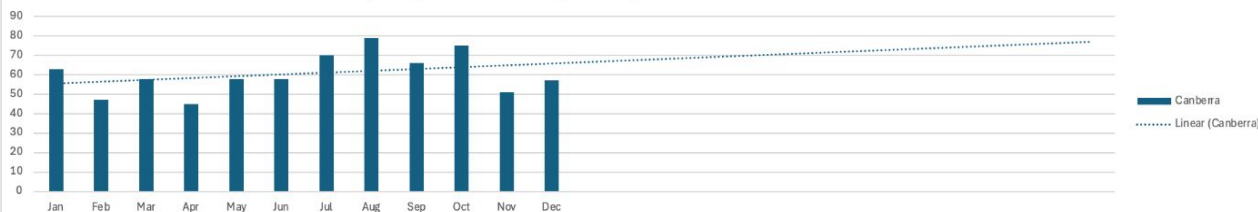
Total Activities:

13889

Total Expenses Based on Offices



Monthly Analysis and Forecasting for Compliance Status for Different Office Locations



Compliance_Status

Compliant

Non-Compliant

Office_Location

Adelaide

Brisbane

Canberra

Darwin

Gold Coast

Hobart

Melbourne

Analysis & Forecasts

1 EXPENSES

Sydney & Canberra: Both of them have the **highest expenses** for the equipments but their performance based on successful compliant activities over the non compliant activities is significantly higher than other locations

2 COMPLIANCE

Darwin & Adelaide: Both of these regions are expected to experience **declining performance** in the coming months. Based on data trends, compliance rates are projected to fall, making them high-risk areas for potential restructuring.

3 Pollution Level

The pollution level has equally affected all the zones in Australia yet, so there is not much relation between the pollution level in a specific zone for the non compliant activities.

Business Suggestions

OPERATIONAL RESTRUCTURING

01

Close or merge underperforming offices to reduce overhead costs and focus resources on more successful regions

RESOURCE OPTIMIZATION

02

Centralize key administrative tasks or services to reduce overhead and optimize staff utilization

INCENTIVE PROGRAM REVISION

03

Revise the current incentive structure to directly tie rewards to achieving compliance targets, incentivizing better performance.

INCORPORATE PREDICTIVE ANALYSIS

04

Use historical data and predictive models to forecast compliance trends and resource needs, adjusting strategies accordingly.

Thank You
