Q step internship - Investigating police demand and priorities (Central analysis and insight team)

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The Home office is the lead government department for immigration and passports, drugs policy, crime, fire, counter terrorism and the police As an intern in his organization, my main work was to analyse data that would be looking at police demand and priorities. The internship lasted 8 weeks and enabled me to gain a number of skills.

Objectives

Throughout the internship, I have worked on a project to do with police demand and priorities investigating incident data.

The aim of this project was to look closely at how the police dealt with both crime and non-crime incidents and see what was the biggest driver of police demand and also how the police prioritised certain incidents. In addition to this I would also be looking at over response and the busiest times and day for both police officers and staff.

Within this project I would look closely at offences flagged as domestic violence, mental health and both mental health and domestic violence. When looking at these offences I would analyse how these incidents compared to all incidents. The report, that was finalised at the end of my internship was a proof of concept piece, and the data that was used to make this report was from HMIC.

Methods

Using excel to create graphs and visualisations of the main results that could be drawn from the data set

Using the internet to find relevant comparable data sources and reports

Using excel to do tests of statistical significance in order to test the strength of relationships

Accessing online crime mapping software's

Finding ways to condense and work with a big data set - the data set was initially filtered in SPSS and then further analysis was done on excel
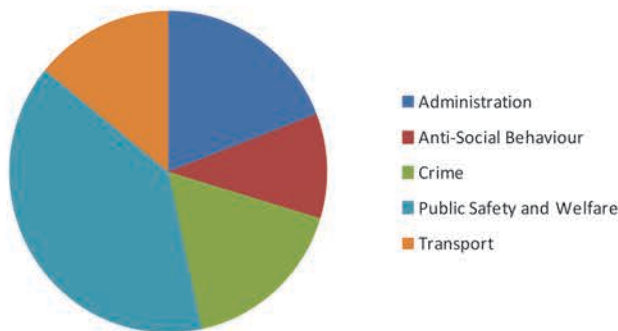

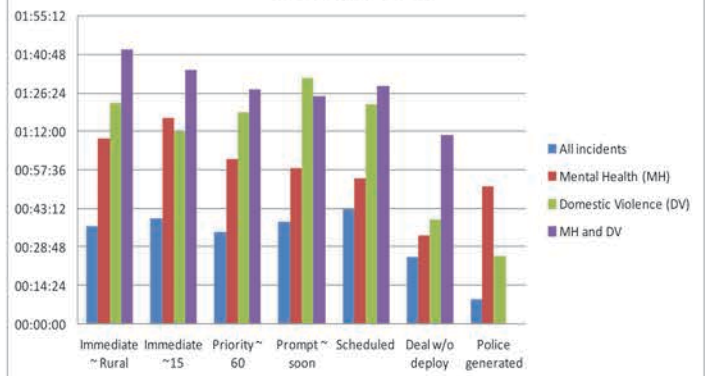Chart 1. Breakdown of police demand by type od incident

Chart 2. Median time spent at flagged and non flagged incidents.

Main findings

- Demand was driven by non crime related incidents - public safety was the biggest driver of demand
- Crime and public safety were the main priorities to the police
- Flagged offences tend to be more of a police priority (DV, MH & DV/MH)
- Further conclusions were made about the busiest time and day for police officers. The data also allowed conclusions to be drawn about when there was an over response from both police officers and staff

Key learning

- Advanced excel learning
- Improving qualitative and quantitative skills
- Learning new writing styles
- Exceeding professional and social skills
- Developing presentation skills
- Time management skills
- Improving data analysis skills

Home Office

Q-Step

A step-change in quantitative social science skills
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