

The Council's aim...

...was to engage data analyst services to assist the development of the first Co-operative Local Investment Plan (CLIP) for the wards of Stockwell, Vassall and Larkhall (known as the Stockwell CLIP).

Focusing on the built environment, CLIPs will provide an evidence-based area plan bringing together an overview of the council's strategies and services that relate to the built environment (transport, parks, education etc). They will bring together information about existing assets (including physical and organisational spatial assets), existing demographic and business intelligence (such as demographic data and categories and levels of deprivation), investment made and investment planned by the council and other public and private partners. This will enable the community to provide their views and identify priorities for spending on the built environment.

The main tasks performed by the team include:

- **Working together** with the Council to identify which data sources should be included.
- **Retrieving the identified data** from various sources using APIs.
- **Pre-processing** all the data sets retrieved to resolve any data quality issues and to make them consistent.
- **Integrating all the pre-processed data** into a data warehouse.
- **Determining and designing** appropriate measures to be produced using the data sets integrated.

- **Developing a map-based information dashboard** to present the information extracted from the processed data.

The team worked very hard and effectively to make the project a success. Due to the scale and the diversity of the data sets to be retrieved and processed, the workload for data retrieval and pre-processing was extremely high and very time-consuming. During the project, the team was always responsive to the Council's various requests and was able to meet the project deadline.

The end products include:

- **A data warehouse** storing all the data as a big fact table in MS SQL Server.
- **Tableau-based Information dashboards** for presenting various information in an interactive and hierarchical way.
- **A set of APIs** (written in Python) which can be re-used in the future when new data becomes available.