ArcGIS Maps for Power BI

Exercise 1 – Mapping Valuation Data

- Add Data
  - VOA_NonDomesticRatingSummaryValuations_2017_06.xlsx
- Add an ArcGIS Maps for Power BI visualisation
- Map Data
  - Drag Postcode field onto Location well
- Size dots by Total Value
  - Drag TotalValue field onto Size well
- Colour dots by Billing Authority Name
  - Drag BAName field onto Color well
- Add additional fields as tooltips
  - Drag any other fields onto Tooltips well
- Explore Basemap, Map Theme and Symbol Style options
  - Edit visualisation
- Save when finished

Exercise 2 – Performing Spatial Analysis

- Add another visualisation to your dashboard (e.g. Treemap of Primary Description)
- Test selections from Charts to Map and vice-versa
- Adding Pins
  - Edit visualisation > Pins > Search for Location
  - Add a pin for home and work (Change names and colours as desired)
- Drivetimes
  - Drivetimes > Select both pins added (use Shift-click to select more than one point)
  - Set search area to 15 minutes > Go > Alter resulting symbology as desired >Back to Report
- Selections using Drivetimes
  - Choose the Select locations using a buffer layer tool
  - Select a drivetime to identify intersecting points
- Find Similar
  - Add TotalArea and TotalValue to the Find Similar well
  - Select a location on the map and run Find Similar
- Save and Close

Exercise 3 – Accessing Content from ArcGIS Online

- Open a new dashboard and add an ArcGIS Maps visualisation
  - Change connection to http://www.arcgis.com
- Map the Geocoded VOA data using Lat/Long
  - X = Long, Y = Lat
- Add Local Authority Districts to the map
  - Edit visualisation > Reference Layers > Search ArcGIS / Public Content
  - LADs 2017 – use LAD Boundaries 2017 (PowerBI Version)
- Add Infographics to the map
  - World Demographics > United Kingdom
  - Total Population, Total Households, Purchasing Power
- Infographics for LA boundary
  - Use default map selection tool
- Select Points within LA Boundary
  - Use Select Locations using Reference Layer tool

ArcGIS Insights

Exercise 4

- Create Workbook
- Add data - Organisation > LADs & Geocoded_VOA_Data
- Enable Location on VOA Data
- Drag points onto LAD map, change symbology
- Create BubbleChart – Primary Description v Total Value
- Aggregate data by Layer - Average Total Value
- Create TreeMap/Other – LADName v Average Total Value
- Enrich – households/population and purchasing power
- Create New Field - Density (Popn/Area)
- Create Scatter Plots
  - Density v Av Value
  - Purchasing Power v Av Value
- Examine Model

Community Analyst

Exercise 5

- Create Project
- Add Data > Import File > Sites_to_Analyse.xlsx
- Create Sites > 5, 10 mins Drivetime
- Create Maps > Color-Coded Maps > Total Households
  - Zoom / Pan to see how Legend changes
  - Add Variable > Purchasing Power
- Reports > Comparison Reports >Add Variables
  - Household Totals, Purchasing Power
  - View as Chart and Table > Export to Excel
- Reports > Run Reports
  - Classic Reports > Site Map > Choose a Location > Run Now
  - Infographics > Key Facts (MBR) > Choose Location > Run Now