OS data, GIS and business analytics for public health

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Introduction

Geographic Information Systems (GIS) and business analytics can be used for handling large datasets to display health service use, provide insight into the distribution of health resources, and identify service gaps.

This webinar will demonstrate how to gain maximum value from a range of OS data for use in resource allocation and responding to needs using Cadcorp SIS.

Examples will include:

- location-allocation models
- routing analysis for identifying and facilitating response and patient travel
- combining population and demographic data for improving distribution of health resources
- using Microsoft Power BI for interactive data visualisation.

Spatial data available from OS

- Base mapping – OS Zoomstack
- Addressing – Addressbase, Code-Point
- Administrative boundaries
- Detailed mapping for analytics – OS MasterMap Topography Layer and Highways Network
- OpenData

OS MasterMap Topography Layer ▲★

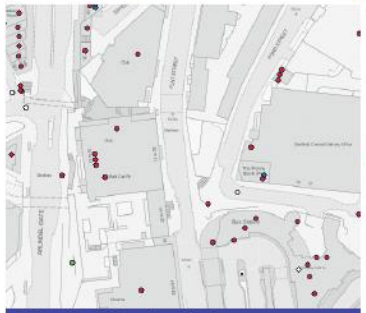
OS MasterMap Imagery Layer ★

OS MasterMap Sites Layer ▲★

OS MasterMap Greenspace Layer ▲★

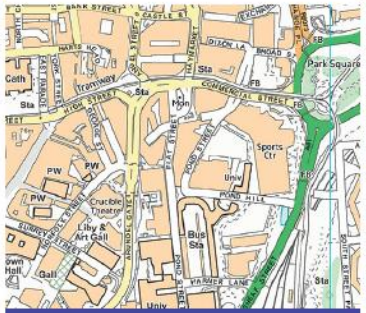
OS MasterMap Water Network Layer ▲★

OS MasterMap Highways Network Layer ▲★



AddressBase / AddressBase Plus / AddressBase Premium ▲★

Points of Interest ★



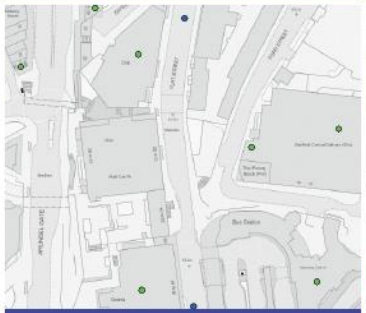
OS VectorMap Local ▲★

1:25 000 Scale Colour Raster ▲★

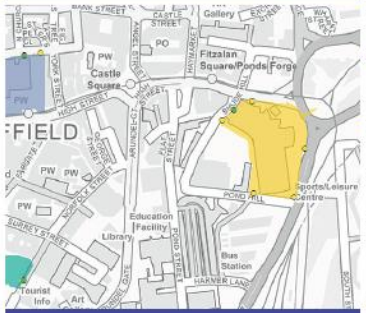
1:50 000 Scale Colour Raster ▲★

OS Terrain 5 ★

Boundary-Line ▲○



OS Open Names ▲○



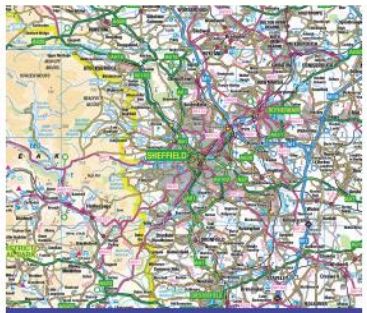
OS Open Greenspace ▲○

OS Open Roads ▲●

OS Open Rivers ▲●

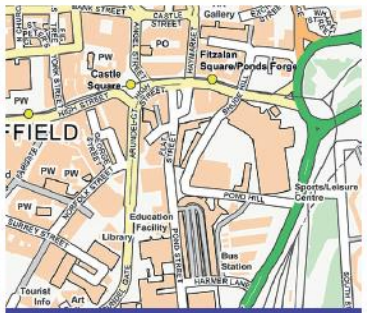
Code-Point
Code-Point with Polygons ▲★

Miniscale ▲○

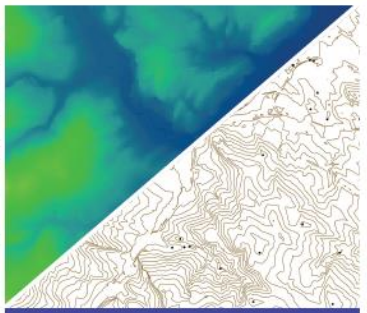


1:250 000 Scale Colour Raster ▲○

OS VectorMap District ▲○



OS OpenMap – Local ▲●



OS Terrain 50 ▲○

OS Open Zoomstack ●○

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How can health organisations access OS data?

For the Public Sector, a wide range of data is available under the Public Sector Mapping Agreement (PSMA).

Other organisations can access the data either as

- A contractor working for a public sector body
- Direct from OS
- Via an OS partner

Who is Cadcorp?

- UK-based developer of the Spatial Information System – SIS
- SIS provides Web, Mobile and Desktop mapping applications
- Supports all Ordnance Survey map data
- Developing GIS since 1995
- Focused on software development and implementation services

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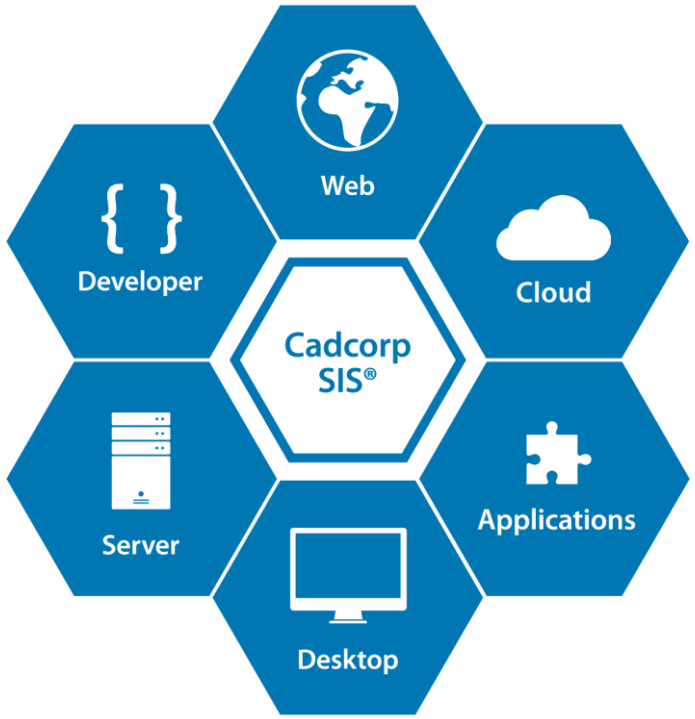
Cadcorp - The Spatial Information System



Cadcorp SIS provides Web, Mobile and Desktop mapping applications

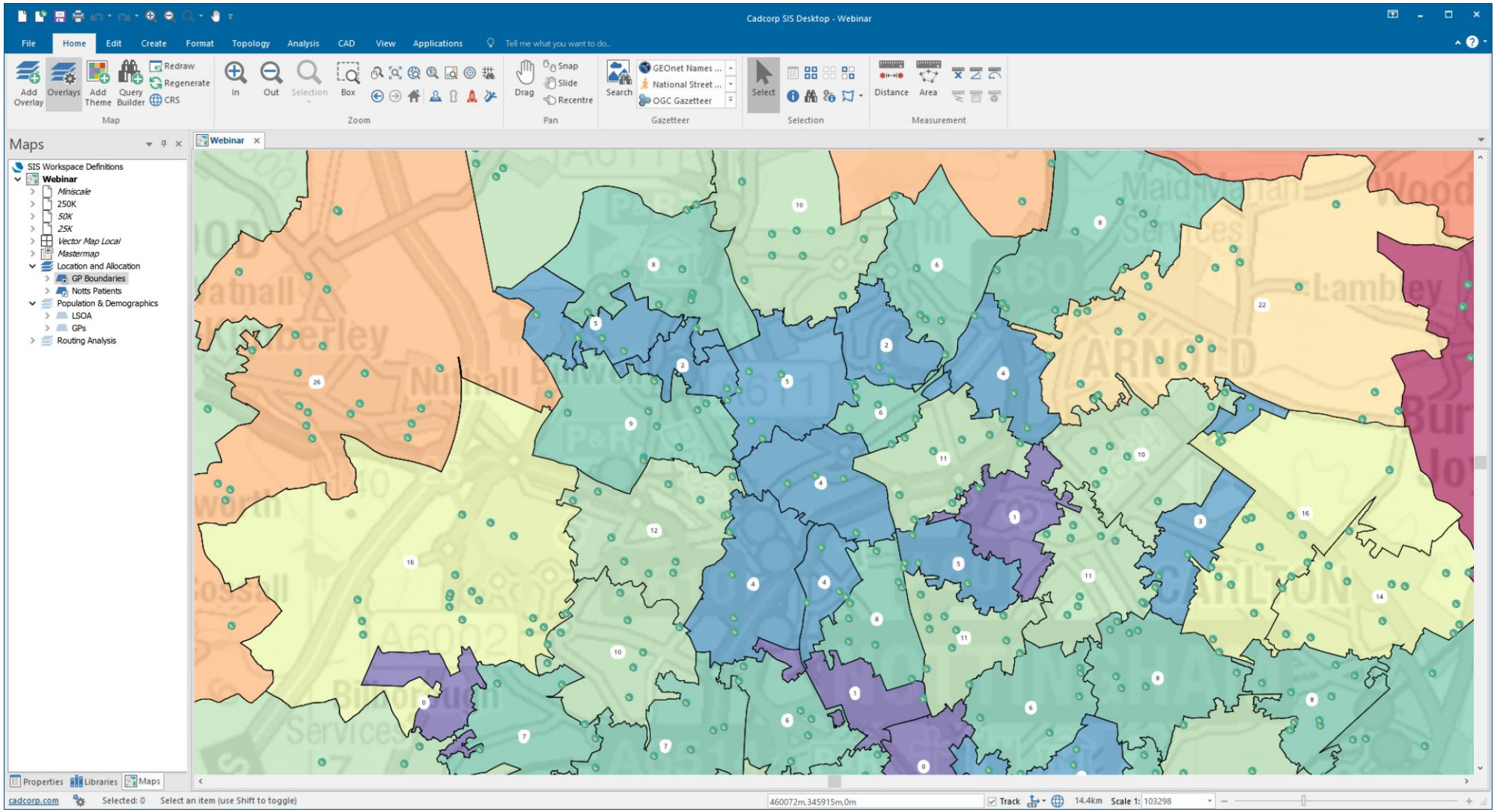
Web and Mobile provides interactive and dynamic access to GI data

Web can either be cloud hosted and managed, or installed locally

Desktop for advanced data creation, editing and detailed analysis

Analysing GI data provides knowledge to improve decision making process within public health

Cadcorp SIS Desktop



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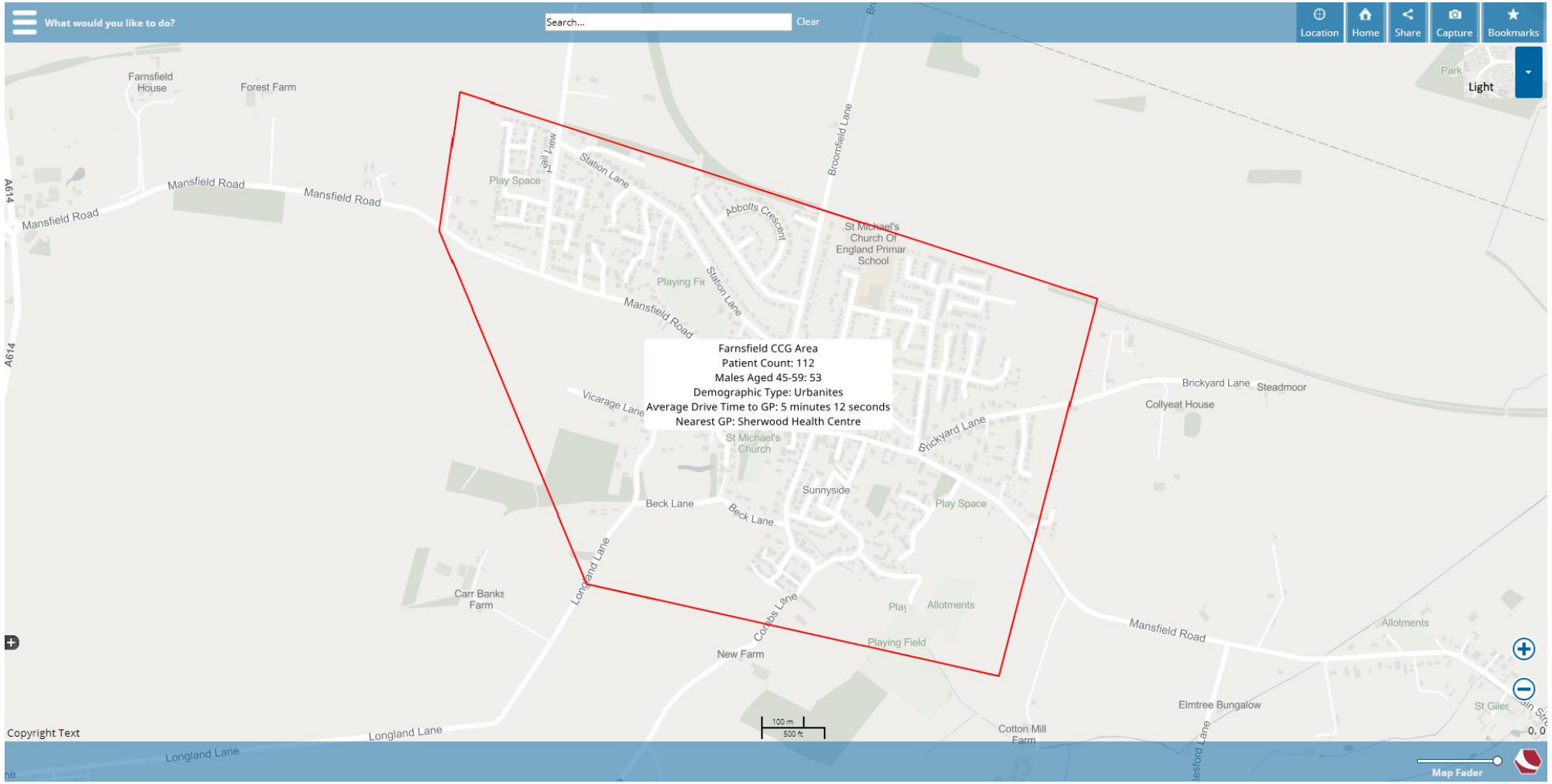
Cadcorp SIS WebMap



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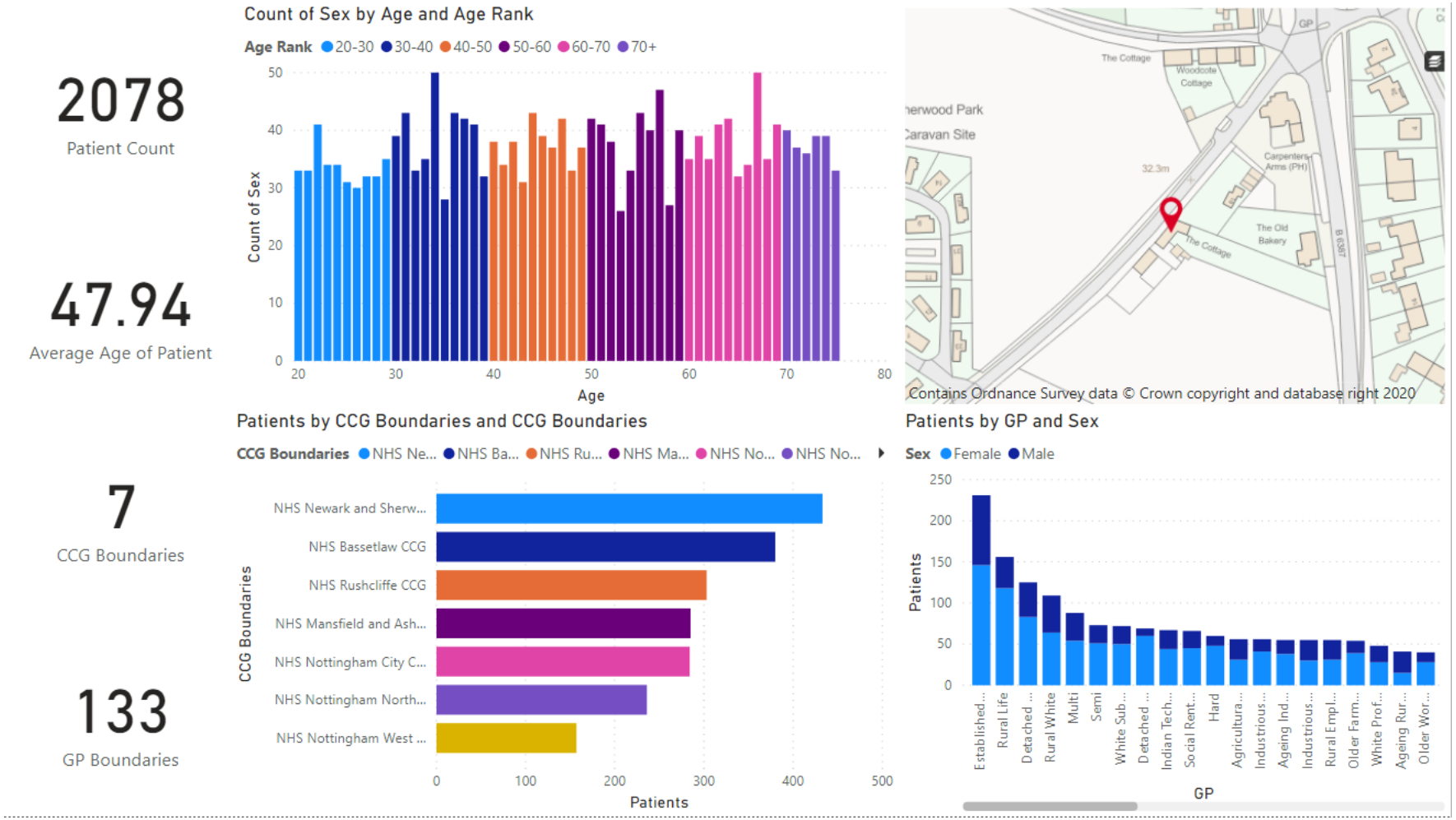
Cadcorp SIS and PowerBI



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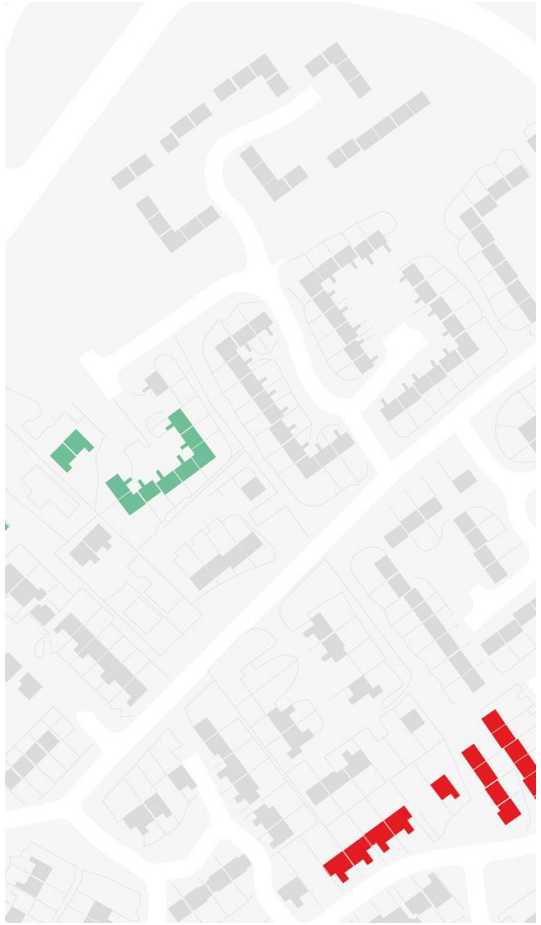
Why Cadcorp?



Ordnance Survey Partner

Providing GI solutions for 25 years

Continuing to develop Desktop GIS

Connect dynamically to many data sources including over 300 formats

Intuitive web mapping not limited by number of users

Mobile interface for ease of use for external staff

Cloud hosted and managed application as an option

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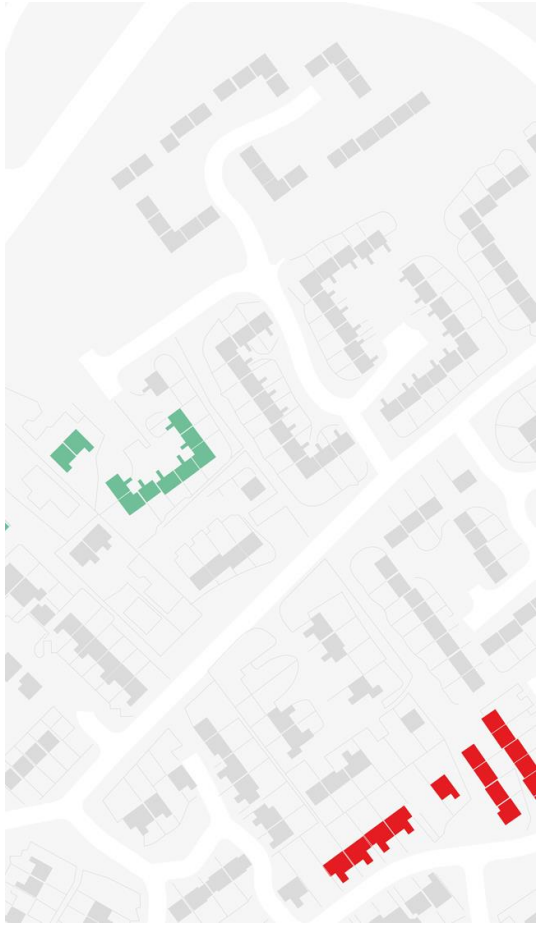
Demonstration



Location-allocation models

Routing analysis for identifying and facilitating response and patient travel

Combining population and demographic data for improving distribution of health resources

Using Microsoft Power BI with spatial data for interactive visualisation

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Questions

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