

Getting started with GIS ... online ... GIS in the world of work

by David Mitchell

Simple, free online GIS viewers make lots of great geography available! It's all about using GIS tools to question, analyse and explore a wide range of issues through maps: in short – **thinking spatially**.

Case studies of GIS in the world of work will persuade young people of the point of using GIS and demonstrate why spatial thinking is important. Ten examples are given below. The suggested activities are outlines to be adapted for your needs.

Some of the case studies use ESRI software and Ordnance Survey map data; the GA is grateful to both for their support in developing GIS in school geography.

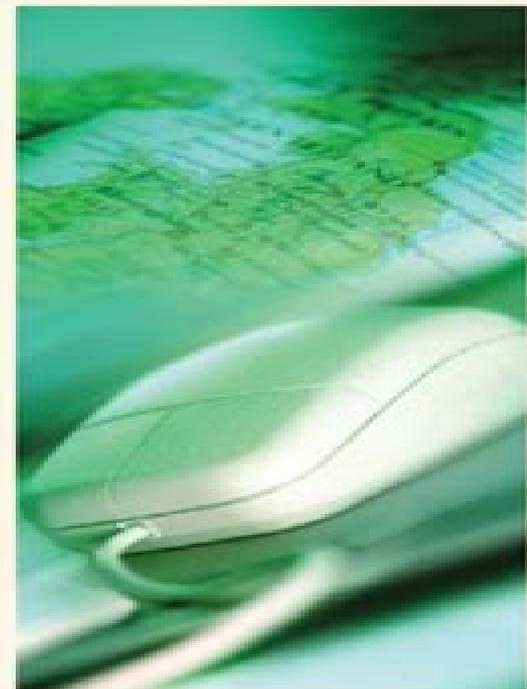
Case study 1: Crime

The police use GIS to give officers clear information quickly and easily and plan their deployment of resources. In these examples from Strathclyde and South Yorkshire, both forces needed to know when and where crime happens. Combining OS map data with datasets recording a range of crime incidents produced these maps showing patterns in both time and space, which allowed the police to target resources more effectively. Police officers query the GIS to produce the crime map they need. Examples here are of violent

crime in Glasgow (a priority for Strathclyde) and anti-social behaviour (a priority for South Yorkshire).

Learning activities

Look carefully at the Strathclyde map, showing violent crime hot spots in red and yellow. Is there a pattern? Compare the violent crime map with other maps, which help explain the crime pattern. Use Google maps viewer (both aerial view and road map) <http://maps.google.com/> or OS map <http://www.ordnancesurvey.co.uk/oswebsite/ptamap> (the aerial view lets students imagine



they are in a police helicopter).

The ESRI Strathclyde case study file document has a very useful graph showing violent crime by time and day (select the view and zoom to enlarge it). Which day of the week is most dangerous? What time of day is it safest to be out on the streets? Is there a violence "danger hour" in the week?

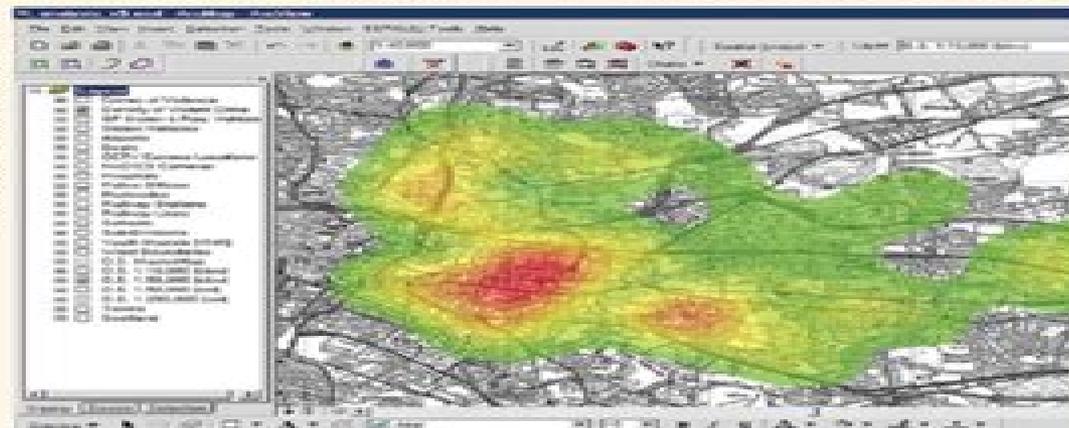
In role as the Strathclyde police, use the violent crime map with the time of crime bar chart to plan when and where you will deploy resources (e.g. 24 police patrol cars; 48 police on foot, 30 CCTV cameras; police working 8-hour shifts, five shifts a week). Be prepared to justify your decisions with the map and graph.

Extension: Investigate crime patterns in your local area (www.neighbourhood-statistics.gov.uk) and use GIS to produce maps. Are there patterns? Can these be explained by other data (such as housing, health, education)?

For Londoners, use the viewer www.met.police.uk/crimefigures to investigate how your borough is doing compared to the rest of London in a range of types of crime.

Case study 2: Retail

An expanding retailer needed to know how the number of shops outlets affected individual



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