



## CASE STUDY

### Land Use Mapping for Scottish Natural Heritage

*“The CR Land Use map has transformed the way we are able to instantly view and interpret urban areas for establishing well-managed greenspace in Scotland.”*

SNH Environmental Audit Unit



#### Overview

Scottish Natural Heritage (SNH) commissioned a pilot urban mapping study in 2003 as an environmental audit project in support of the SNH settlements programme. With around 80% of the population living in cities and towns, SNH recognised the importance of establishing well-managed greenspace in and around these areas.

#### The Problem

To undertake the greenspace audit, SNH required direct access to information on the location of open space, eg. parks, sports grounds and gardens.

SNH required a land use map to locate exactly where Glasgow's population resides and distance to the resident's nearest open space. Collection of these data however would prove a time intensive and costly exercise for SNH.

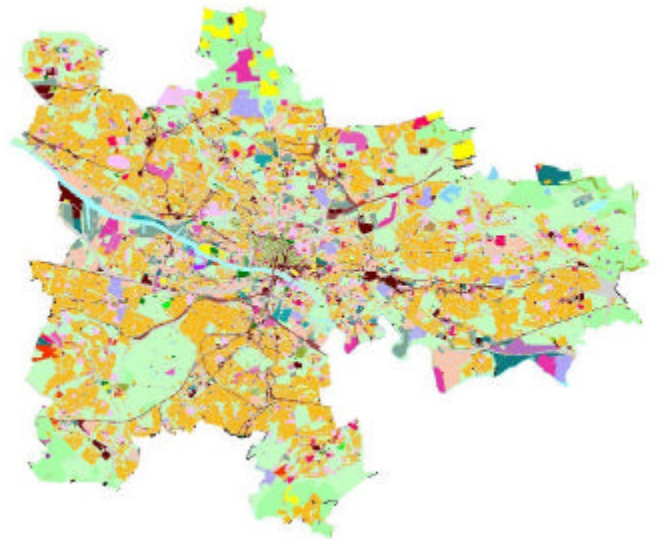
## Mapping Greenspace

#### The Solution

In support of this audit The GeoInformation Group supplied SNH with CR Land Use<sup>®</sup>. This is a highly detailed database containing 52 land use categories including residential, outdoor recreation and derelict land classes that conform to the National Land Use Database (NLUD) framework.

This powerful information database has been derived from a Cities Revealed high-resolution aerial survey that has enabled SNH to automatically map land use information for the Glasgow area via the click of a button.

The resulting classified base map has provided SNH with a high-level classification that can be used as a land use baseline and as a sampling frame for more targeted land use studies.



*Mapping land use categories has established that over 65% of Glasgow's population live within 300 m of open space.*

The land use database has helped SNH to:

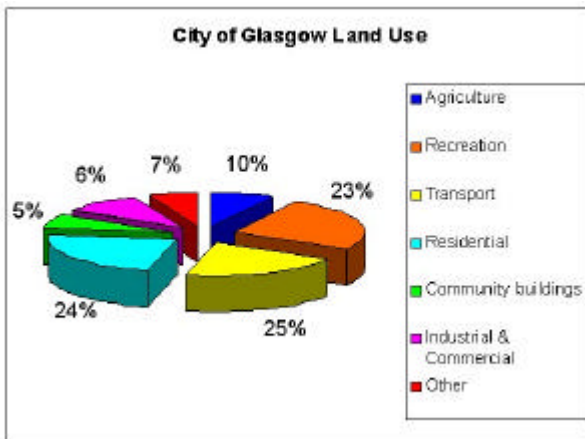
- ??Analyse the current percentage of land categorised as built up, recreational and open space
- ??Link land use to census data to locate open space and its proximity to Glasgow's inhabitants
- ??Assess location of open areas for creating free flowing greenspace corridors and networks
- ??Support environmental justice and green space provision



## Benefits

CR Land Use has enabled SNH to:

- ?? Automatically map land use information on the desktop to assess local greenspace provision
- ?? Present clear, colour-coded land use maps for supporting environmental justice purposes
- ?? Monitor land use change over time for sustainability purposes
- ?? Measure individual or multiple sites pertaining to specific land uses
- ?? Provide a consistent method for examining the structure and composition of Glasgow's living environment

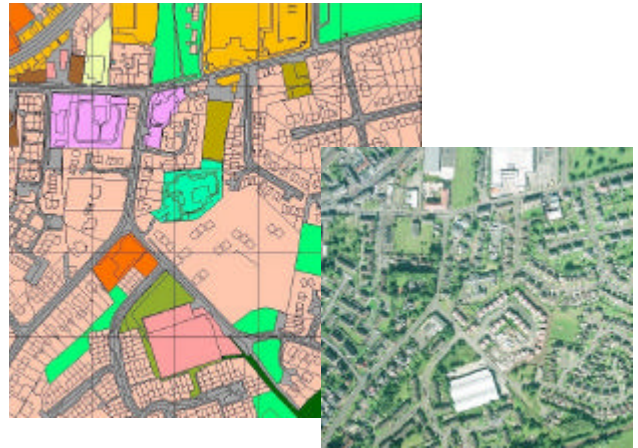


Immediate access to statistical information

## About CR Land Use

CR Land Use is a highly detailed database compatible with National Land Use Database (NLUD) v3.3 and Ordnance Survey Land-Line or OS MasterMap. Comprising 52 nationally consistent land use classes including waste disposal sites, derelict land, recreation and residential buildings, CR Land Use is a fundamental data source for a wide range of studies.

The database is derived by visual identification and classification of each land use activity from Cities Revealed high-resolution (25cm or better) aerial imagery and backed up by field investigation by a team of imagery and land use experts.



CR Land Use map and air photo

## Data Supply

This detailed and accurate (95%+ accuracy) land use database is supplied in a number of standard formats including ESRI's Shape and MapInfo's Tab formats. It can also be linked and easily integrated with the Ordnance Survey's Land-Line and MasterMap products.

## CR Land Use users

Cities Revealed Land Use data is being used by local authorities across the country for many applications from sourcing land, monitoring land use change, selecting green and brown field sites and planning new building developments, including:

- ?? Perth and Kinross Council
- ?? London Borough of Camden
- ?? Doncaster Borough Council
- ?? Wyre Forest Council
- ?? Cheshire County Council



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