

## EcoServ-GIS



### Quick Facts

#### Inputs

Freely available GIS datasets & OS MasterMap Topography data

#### Outputs

Maps showing ecosystem services

#### Scale

County or regional scale

#### Context

A range of land uses

#### Cost

Open access

#### Software required

ArcGIS Desktop (10.2.2) with the Spatial Analyst Extension (Advanced Licence)

#### Skills Required

GIS user, intermediate - expert level

#### Developer

Jonathan Winn / Durham Wildlife Trust

### Description

EcoServ-GIS is a Geographic Information System (GIS) toolkit for mapping ecosystem services at a county or regional scale. It uses input GIS/map data to generate fine-scale maps that illustrate human need or demand for ecosystem services as well as the capacity of the natural environment to provide them.

### Ecosystem services included

Nine ecosystem services across regulating and cultural categories.

### Habitats

Semi-natural grasslands, woodland, enclosed farmland, freshwater, wetlands and floodplains, and urban.

### How does it work?

EcoServ-GIS adopts a 'service-based' approach, using information about natural processes and how they deliver services in the environment.

It overlays datasets incorporating aspects of the physical landscape (e.g. habitat) and socio-economic factors (e.g. health deprivation). This allows users to identify where ecosystem services occur, where there is high demand for a service, and where there is high capacity to provide it. Capacity and demand maps can be overlaid to visualise areas where they coincide ("benefiting areas") or where action is needed to improve service delivery ("management zones").

### Case studies in the UK

EcoServ-GIS has been used in Cumbernauld, North Lanarkshire to map green networks and spaces that benefit the local population. It has also been used in pilot studies for Somerset, Sussex and Northamptonshire Wildlife Trusts

### Where can I get it?

[https://drive.google.com/folderview?id=0B\\_v9QO2jyC4eNIVUbzY1UUstZU0&usp=sharing](https://drive.google.com/folderview?id=0B_v9QO2jyC4eNIVUbzY1UUstZU0&usp=sharing)

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