



# **ECOSPATIAL SOLUTIONS LTD. G-CLOUD 15 CLOUD SUPPORT**

## **GIS Scoping and Solution Planning Service Definition Document**



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## 1 About EcoSpatial Solutions

EcoSpatial Solutions Ltd. is a UK-based environmental GIS consultancy specialising in the design, implementation, and optimisation of spatial data systems for the public sector. Founded with the purpose of improving the quality, accessibility, and intelligence of environmental and land-related data, EcoSpatial brings together deep technical expertise in ESRI technologies with a strong understanding of UK environmental legislation, biodiversity policy, and digital transformation needs across government and infrastructure sectors.

We are an ESRI Bronze Partner with established capability in ArcGIS Online, ArcGIS Enterprise, Experience Builder, Field Maps, Survey123, and enterprise geodatabase design. Our work spans end-to-end cloud GIS delivery, from data discovery and readiness assessment through to system architecture, application development, analytics, reporting dashboards, and long-term support.

Our consultancy model emphasises:

- **Data quality and governance:** ensuring that environmental, estates, and operational datasets are structured, validated, and maintained to support auditability, regulation, and long-term value.
- **Cloud-first architecture:** helping organisations get the fullest value from ArcGIS Online or ArcGIS Enterprise through scalable, secure, and user-friendly GIS solutions.
- **End-user accessibility:** creating intuitive applications, dashboards, and workflows that allow non-GIS specialists to explore, update, and act on spatial information confidently.
- **BNG and nature recovery expertise:** providing sector-leading capability in BNG data optimisation, habitat baselining, condition assessments, survey systems, and metric calculations.
- **Training and capability building:** empowering internal teams to maintain, grow, and leverage their spatial data systems independently.

EcoSpatial works with clients across utilities, local authorities, national agencies, charities, estates teams, and infrastructure owners, supporting both strategic and operational decision-making. We bring a strong track record in implementing geospatial systems that improve environmental compliance, streamline data workflows, reduce risk, and support nature recovery objectives.

## Our valued clients



## Partnerships



## 2 The Service

### 2.1 Service Overview

EcoSpatial begins with a comprehensive discovery process designed to fully understand your organisation's operational needs, regulatory context, existing geospatial capability, and user landscape. This ensures that any future GIS solution is aligned to your objectives, technically robust, and scalable across departments.

The outcome of this service is a formalised GIS solution design, acting as the blueprint for system configuration, build, integration, and long-term governance.

### 2.2 Discovery Activities

#### Use Case Identification

We work with your internal teams to identify and prioritise GIS use cases across the organisation. Typical use cases include:

- Estates and land management
- Environmental management and regulatory reporting
- Planning and development control
- Biodiversity Net Gain (BNG) workflows
- Operational monitoring and incident response
- Asset management and service delivery

This ensures the GIS solution meets real user needs and delivers measurable value.

#### Review of Existing ESRI Environment

EcoSpatial undertakes a detailed review of your current ArcGIS Online or ArcGIS Enterprise configuration, including:

- Users, groups, and permission structures
- Existing web maps, applications, dashboards and content
- Data storage, hosting, and feature services
- Integration with other systems, datasets, or workflows
- Security, governance, and administrative settings

This identifies strengths, gaps, risks, and opportunities for improvement.

#### Data Quality, Readiness & Governance Assessment

We assess the condition, structure, and governance of your current datasets, focusing on:

- Attribute completeness, consistency, and accuracy
- Spatial correctness and schema alignment
- Data standards, metadata, and lineage
- Update workflows and steward responsibilities
- BNG or sector-specific data models where relevant

Recommendations are made to ensure robust, compliant, high-quality data.

### **Reporting, Compliance & Integration Requirements**

EcoSpatial evaluates the reporting demands placed on your organisation, which may include:

- BNG statutory reporting
- Environmental compliance submissions
- Planning documentation
- Internal management reporting
- Departmental dashboards or KPIs. We also identify cross-departmental integration needs to support aligned, efficient workflows.

### **User Roles, Permissions & Access Design**

We engage with stakeholders to map:

- User types and skill levels
- Editing vs. view-only permissions
- Role-based access requirements
- Any security, audit, or compliance restrictions

This ensures that the new GIS system supports safe, controlled, and appropriate data access.

## **2.3 Solution Planning & Design**

Following discovery, EcoSpatial produces a formalised solution plan tailored to your organisation. This can be either a high-level blueprint or a detailed technical specification depending on your needs.

The solution plan typically includes:

- Proposed workflows and user journeys
- Recommended system architecture (ArcGIS Online or Enterprise)
- Data models, schemas, and geodatabase structures
- Governance models and quality assurance workflows
- Application and dashboard requirements
- Integration points with existing systems
- Implementation plan and future development roadmap

This document provides the foundation for a well-structured, efficient, and scalable GIS implementation.

## 2.4 Service Outputs

At the end of this service, you will receive:

- A GIS Discovery Report summarising findings and recommendations
- A Solution Design Document providing system architecture, workflows, data models, and delivery plan
- A Prioritised Action Plan guiding next steps for implementation
- Optional presentation or stakeholder briefing

## 2.5 Service Features

- Identification of GIS uses (estates, environment, planning, BNG, operations, assets)
- Review of your existing ArcGIS Online or ArcGIS Enterprise configuration
- Assessment of data readiness, data quality and data governance policies
- Understanding reporting, compliance or departmental integration requirements
- Mapping system users, permission levels and role-based access needs
- Comprehensive planning, outlining workflows, system architecture, data models, deliverables

## 2.6 Service Benefits

- Enables stakeholders to have a greater understanding of GIS solutions
- Increases understanding of data quality and collection
- Highlights risk areas around poor data collection, handling and governance
- Establishes bespoke guidelines for the foundations of a GIS project
- Establishes clear understanding of the security levels and access pre-development

## 3 Support

### 3.1 Cloud hosting service support

We will support you with upkeep and maintenance post implementation as set out in the project scope. Our team can assist with operational support and troubleshooting as required, as well as including ESRI technical support in the case of software-specific faults.

### 3.2 Email support

We provide email support with a response target of 4 hours if within office hours, otherwise the next working day– response within 1 working day if on weekend or bank holiday. Support may be continued via phone or web chat is suitable, however, support requests must first be made via email. This single tier of support is a consistent standard across our clients. The client has direct contact with the principal consultant on their project, giving clear and direct results. The support package is included in our day rate.

## 4 Social Value

EcoSpatial is committed to delivering high-quality cloud GIS services while generating broader social, economic, and environmental benefits aligned with the UK Government's Social Value Model. Our approach focuses on creating measurable, contract-specific contributions across four core areas that align strongly with both the original Social Value Model themes and the updated government missions under PPN 002.

### 4.1. Climate Action & Environmental Sustainability

As an environmental GIS consultancy, EcoSpatial is uniquely positioned to help public sector clients achieve climate-positive outcomes. We embed sustainability into our technical delivery by enabling data-driven carbon reduction, supporting biodiversity initiatives, and providing geospatial evidence for nature-based solutions.

### 4.2. Economic Growth, Digital Skills & SME Support

EcoSpatial contributes to economic resilience by supporting the growth of digital skills in the public sector and local communities. Through GIS and Python training, mentoring, and strategic use of SME subcontractors, we strengthen local supply chains and improve digital capability.

### 4.3. Equality, Diversity & Inclusive Opportunity

We are committed to fair, inclusive, and accessible working practices. EcoSpatial promotes equitable recruitment, flexible working, and opportunities for individuals from underrepresented groups to enter or progress within the geospatial profession.

#### **4.4. Wellbeing, Community Engagement & Responsible Delivery**

EcoSpatial strengthens local communities and improves wellbeing by offering volunteered geospatial expertise to environmental and civil society groups. Internally, we uphold modern, healthy working practices that support mental wellbeing, flexible work, and high-quality work–life balance.