



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

**Visualisation, Dashboards and  
Decision Support Tools  
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 designs clear, intuitive, cloud-hosted GIS applications that make spatial data accessible to both specialist and non-specialist users. Using ArcGIS Online or ArcGIS Enterprise, we build configurable, scalable, and secure applications that allow organisations to interact with environmental, estates, operational, and strategic data without requiring desktop GIS expertise.

Our solutions support public engagement, operational awareness, decision-making, and cross-departmental information sharing.

### 2.2 Service Scope

EcoSpatial delivers a wide range of cloud-based GIS applications, including:

#### **Interactive Web Maps**

Customised web maps providing intuitive controls, thematic layers, and dynamic visualisation.

#### **Experience Builder Applications**

Fully branded, responsive, multi-page applications tailored to workflows such as site selection, risk analysis, project dashboards, and public-facing information.

#### **Operational Dashboards**

Real-time dashboards integrating maps, charts, KPIs, indicators, and automated reporting workflows to support operational management and monitoring.

#### **StoryMaps**

Narrative web content combining maps, multimedia, and text for leadership briefings, public consultation, project summaries, or stakeholder engagement.

#### **Department-Specific Views**

Role-based access allowing different teams (e.g., planning, ecology, asset management) to see tailored layers, tools, and permissions within the same overarching system.

### 2.3 Application Capabilities

EcoSpatial designs applications that are easy to use and adaptable to a wide range of organisational needs. Capabilities may include:

- Advanced filtering and query tools for exploring complex datasets
- Layer switching and standardised symbology to maintain consistency across departments
- Attribute and attachment viewing, including documents, photos, and survey data
- Data editing interfaces for controlled updates to operational, environmental, or asset datasets
- Embedded charts, summaries, and indicators for immediate insight
- Responsive layouts for desktop, tablet, and mobile access
- Integration with field data collection tools (e.g., Survey123, Field Maps)
- Secure authentication with organisation-wide permissions and user roles
- Automated refreshes linked to live services or scheduled updates

## 2.4 Technical Approach

### Design & Build

- Requirements gathering with technical and non-technical users
- UX-focused layout design to minimise cognitive load and improve clarity
- Build of reusable templates for consistency across the organisation
- Configuration of ArcGIS Online/Enterprise items, roles, and groups
- Optional integration of Python or Arcade expressions for advanced logic

### Quality & Usability

- Iterative prototyping with stakeholder feedback
- Accessibility-aware design principles
- Performance optimisation for large datasets or complex symbology
- Testing across device types and user roles

### Security & Governance

- Role-based access control
- Permissions aligned with information governance requirements
- Structured, named services and items for long-term maintainability

## 2.5 Collaboration and User Engagement

EcoSpatial works closely with:

- Ecologists to surface environmental indicators, BNG metrics, habitat data and monitoring outputs

- Planners to provide spatial context for development, constraints, and policy layers
- Asset managers to visualise infrastructure, risk zones, and operational status
- IT teams to align with existing architecture, authentication, and governance frameworks
- Leadership and public-facing teams to ensure clarity, accessibility, and effective storytelling

We tailor applications to each audience's needs, ensuring intuitive navigation, relevant functionality, and appropriate permissions.

## 2.6 Service Outputs

Depending on project requirements, deliverables may include:

- Fully configured web applications hosted in ArcGIS Online or ArcGIS Enterprise
- Custom templates for web maps, dashboards, and Experience Builder apps
- Branded StoryMaps for public or internal communication
- Documentation covering configuration, permissions, and data requirements
- Training sessions for system administrators and end-users
- Maintenance and support options for long-term application lifecycle management
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## 2.7 Service Features

- Cloud-hosted GIS applications built in ArcGIS Online or Enterprise
- Interactive web maps for intuitive data exploration
- Customer Branded Experience Builder applications
- Operational dashboards with KPIs and automated reporting
- StoryMaps for public or executive communication
- Department-specific, permission-based views
- Advanced filtering and layer control
- Standardised symbology and configurable displays
- Attribute, attachment, and embedded chart viewing
- Editable interfaces for authorised data updates

## 2.8 Service Benefits

- Enables non-specialists to access GIS insights easily
- Improves decision-making with clear, real-time visualisation
- Reduces dependency on desktop GIS software
- Enhances transparency and communication across teams

- Streamlines field-to-office data update workflows
- Supports compliant, well-structured environmental data management
- Promotes consistent use of organisational data standards
- Increases operational efficiency with automated reporting
- Strengthens cross-departmental collaboration
- Scales with organisational growth and evolving data needs

## 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.