

# Environmental Impact Analysis

## Comprehensive Environmental Impact Analysis services across the project lifecycle

The **environmental impact analysis** services of Applus+ encompass the monitoring and supervision of prevention and protection measures for natural heritage throughout all stages of infrastructure lifecycles — including construction, operation, and dismantling or demolition — ensuring full **regulatory compliance**.

Our team provides expert [environmental management](#), supervision, and technical assistance across a wide range of sectors, including linear infrastructure, electrical and railway transport, road networks, port facilities, mining developments, hydraulic projects, and [renewable energy installations](#).

The scope of our **environmental impact services** encompasses the evaluation of ecological values in the project area, analysis of permitting requirements, verification of legal conformity, and identification of any environmental conditions associated with planned operations.



THE Applus+ SOLUTION

## Environmental impact analysis and technical support for sustainable infrastructure

Our **environmental impact analysis** and preliminary natural environment studies are designed to identify preventive and corrective actions that minimize environmental



impacts across all phases of a project. These include end-of-life restoration assessments to return the environment to its pre-operational state, as well as measuring the effectiveness of restoration actions in enhancing biodiversity.

We offer strategic technical support on environmental implications from early feasibility studies through to implementation, facility operation, and infrastructure dismantling.

Our **environmental consulting services** are tailored to public authorities and private developers who require assistance with:

- **Environmental planning of activities:** impact studies, **environmental impact assessments**, strategic environmental assessments, site selection, and more.
- **Technical assistance** with public administration procedures, including preparation and submission of required documentation.
- **Environmental direction** and monitoring during construction phases to ensure traceability and control of impacts. This includes evaluating the effectiveness of corrective measures and identifying any unforeseen issues, along with proposals for mitigating actions.
- **Support for regulatory compliance** with environmental impact statements (EIS) and environmental authorizations.
- **Client representation** in interactions with authorities, always in full coordination with the client.
- **Environmental monitoring during operational phases** of facilities and infrastructures.
- **Environmental monitoring during dismantling phases ensures that** ecological integrity is maintained.
- **Specialized studies and technical consulting:** including fauna and flora reports, baseline soil condition assessments, vector modeling, faunal and landscape studies, vegetation assessments, hazardous waste reporting, environmental compliance certificates, and plans for restoration, reforestation, or landscape integration.

Our approach also takes into account cross-cutting environmental factors increasingly required by regulators and stakeholders. These include **cumulative impact assessments**, **stakeholder engagement strategies**, and integration of **climate-related risks** into environmental evaluations. Additionally, we apply **strategic environmental assessment (SEA)** methodologies when advising on infrastructure plans or programs, aligning with global sustainability goals and biodiversity protection frameworks.

To support these activities, Applus+ employs digital tools that enhance mobility, data integration, field inspections, and compliance oversight:

- **GeoAPP:** Used for real-time data collection in environmental monitoring during construction. Features include geolocation, photography, and acoustic monitoring integrated with noise maps and corrective planning.



- [GIS \(Geographic Information System\)](#): Supports compliance verification through multi-layered mapping and integration with official datasets, used in conjunction with CIMSA MOBILE.
- [CIMSA MOBILE](#): Enables digital inspection workflows including traceability, custom forms, field authentication, and reporting.
- **VISION PROFILE**: A camera trap-based monitoring system for assessing fauna permeability and documenting potential environmental impacts, including spill events and habitat disturbances.

## Target customers

### Environmental planning for infrastructure developers and public administrations

Initial project design requires early-stage assessments of the natural environment, as local flora and fauna significantly influence site viability and long-term operations.

During construction and operation, strict adherence to [environmental permitting](#) conditions is crucial for meeting stakeholder expectations and legal requirements.

Ultimately, end-of-life monitoring and thorough planning for dismantling help prevent environmental liabilities and ensure the long-term integrity of the ecosystem.

## Key customer benefits

### Strategic Advantages of Applus+ Environmental Impact Services

Applus+ delivers **environmental impact study** services during the pre-operational phase to gather critical ecological data, enabling informed site selection and project adjustments prior to construction beginning. This helps reduce stakeholder conflict and enhances project viability.

Our **environmental assessments** facilitate the acquisition of the necessary permits and authorizations by providing scientifically robust documentation on the natural surroundings.

During implementation and operations, continuous [environmental monitoring systems](#) ensure that all activities comply with the terms set out in permits. Proactive oversight prevents regulatory breaches, project delays, and reputational risks.

Our multidisciplinary team combines technical excellence with strong regional insight, supporting accurate impact forecasting and regulatory alignment.



We collaborate with an expert network across scientific and technical fields, enabling us to conduct specialized assessments of ecosystems, flora, fauna, and marine habitats.

Our environmental department works closely with Applus+ engineering teams, ensuring full project integration and alignment with infrastructure development goals.

We also operate in-house laboratories for [water analysis](#) and provide accredited inspection services for compliance with [air and noise quality standards](#).

In short, we offer comprehensive environmental expertise, strong local presence, integrated team workflows, and high-precision technical capabilities tailored to your project needs.