

International services and experience



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Our Company.

TEYDE Territorio y Desarrollo SAC is an international company located in **Peru, with branch in Spain and Latin America**, and active in other geographical areas such as **Africa**. We contribute to the implementation of territorial and environmental sustainability values, supported by the use of new ICT and Geomatics technologies.

TEYDE conducts studies, profiles and records, as well as develops interventions in the areas of Environment, Natural hazards and Sustainable Development, especially in the fields of Management, Management and Risk Mitigation.

TEYDE provides solutions adapted to the needs of Public Administrations, Management Organizations, NGOs and private companies.



What set us apart?

For TEYDE to improve the results expected by our customers is the most important, that is why quality and innovation are fundamental values in our services.

Mission

Provide a comprehensive service in the field of environment and natural hazards, addressing environmental and territorial issues from a global and integrative perspective.

Vision

Improve the environmental **quality** and **safety** of our environment.

Improve and expand areas of work with the aim of providing a complete service in all fields of our sector.

Values

Achieve and improve the results pursued by our **client**, increasing the value of their ideas at a competitive cost.

The best personal and professional development of our **multidisciplinary team** of professionals and collaborators.

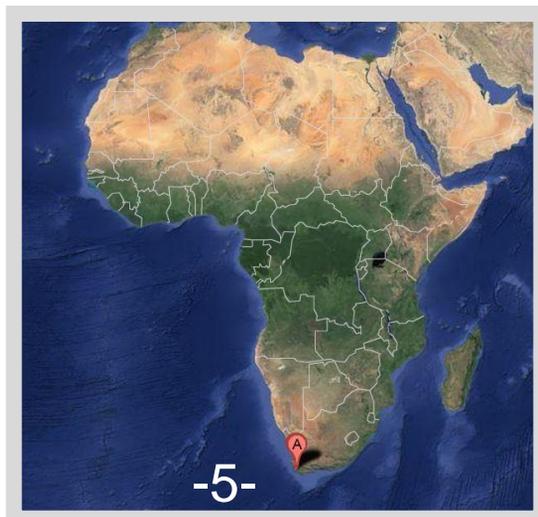


INTERNATIONALIZATION

TEYDE has extensive international experience. In **Spain** we have presence in the Canary Islands and the Peninsula from where we serve a large part of the national market and also the **EUROPEAN MARKET**

Our headquarters in **Latin america** is in **Lima (Peru)** where we also provide services to other countries such as **Colombia** or **Chile**. We have a wide network of partners and partners in other countries in the area to guarantee the coverage of our services.

Another key market for **TEYDE** is the Northwest and South of **AFRICA**, with performances in **Morocco**, **Sao Tome and Principe** and **South Africa**. Our activity in the area is channeled especially through local partners and internationalization associations.



INTERNATIONALIZATION

Our strategy of internationalization is concretized in:

Direct access

- Direct presence through delegations in key areas for our commercial and business activity (**Spain, Peru and Colombia**) Where we provide all our services

Collaboration networks

- In the exploration of new markets and the development of the first projects in new geographical areas, we do this through internationalization associations (Chambers of Commerce, ICEX ...) and through local partners and other partners (UNESCO, SMADER ...) this is our Strategy in **Latin America and Africa**

Innovation

- We consider **innovation** as another of the pillars of our internationalization process with participation in international calls such as **HORIZONTE 2020 or LIFE +** programs. We have an important network of collaboration between which are profiles like:
 - Universities and research centers
 - Companies and multinationals.
 - Public institutions.



INTERNATIONALIZATION

Some of our projects



Proyecto: Gestión Integral de riesgos naturales.

Ciente: Federación Municipios Colombianos

País: COLOMBIA



Proyecto: BRSmart Santana

Ciente: Reserva de la biosfera de Santana

País: PORTUGAL

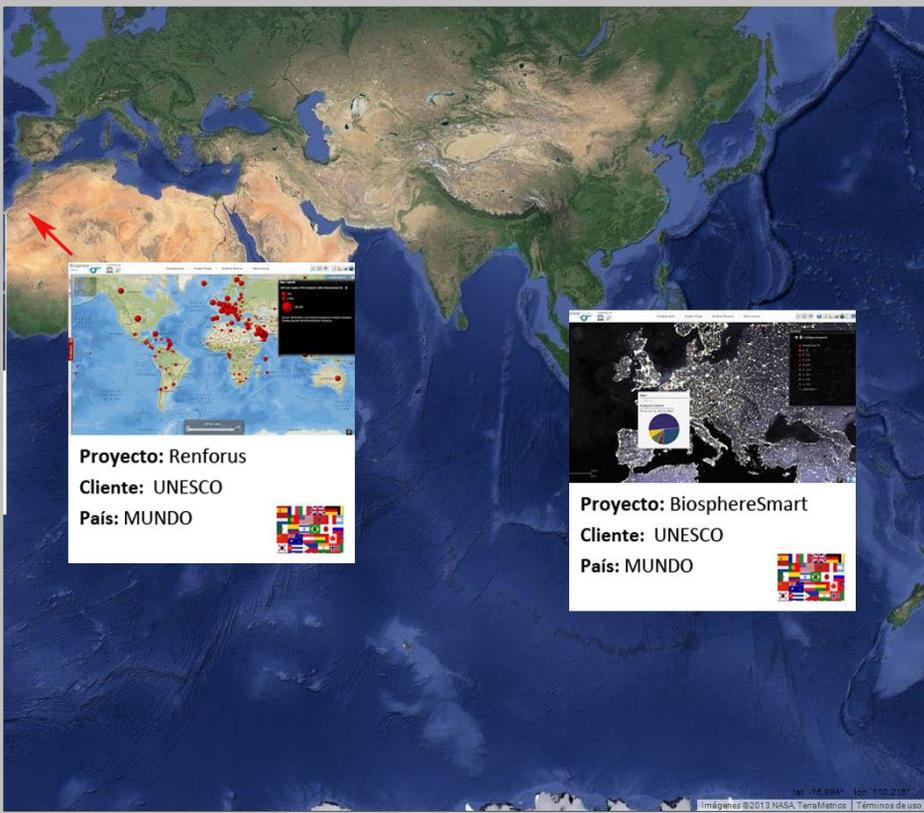


BARRICK

Proyecto: Valorización pasivos ambientales mineros.

Ciente: Mineras Barrick

País: PERÚ



Proyecto: Renforus

Ciente: UNESCO

País: MUNDO



Proyecto: BiosphereSmart

Ciente: UNESCO

País: MUNDO



OUR SERVICES

At **TEYDE** we provide a wide range of consulting and development services, with a **multidisciplinary and integrative vision** of all the factors under study, particularly those related to the Environment and Natural Risks.

Environment

- Natural Resources Management and Environment
- Territorial Intelligence: Management Systems of Natural Spaces

Natural hazards

- Natural Hazards Management
- Files and Stabilization Works against Natural Hazards
- Technology risk management platforms: RIMAP

Geographic information systems

Teledetection

- Monitoring of natural parks and protected areas.
- Natural hazard maps. Slope and flood movements.
- Detection of changes in vegetation cover Early monitoring of the desertification process

Infrastructures

Environment

TEYDE tackles environmental and territorial issues from a multidisciplinary, global and inclusive perspective.

Combining our experience in the field work with the use of innovative geomatic tools (ArGIS Server Advanced, Laser Scanner technology, Mobile ...) with a dual purpose:

- Optimization and improvement of the quality of the field work (acquisition of accurate data, analysis and interpretation, inventories of natural resources)
- Development of specific tools for decision making (Management and Management of Risks and Natural Spaces) such as RIMAP or BiosphereSMART.

These tools add value to the management and decision making thanks to its functionalities and services :

- Predictive Systems on Dynamic Simulation Models
- Indicator viewer
- Sustainability Observatory

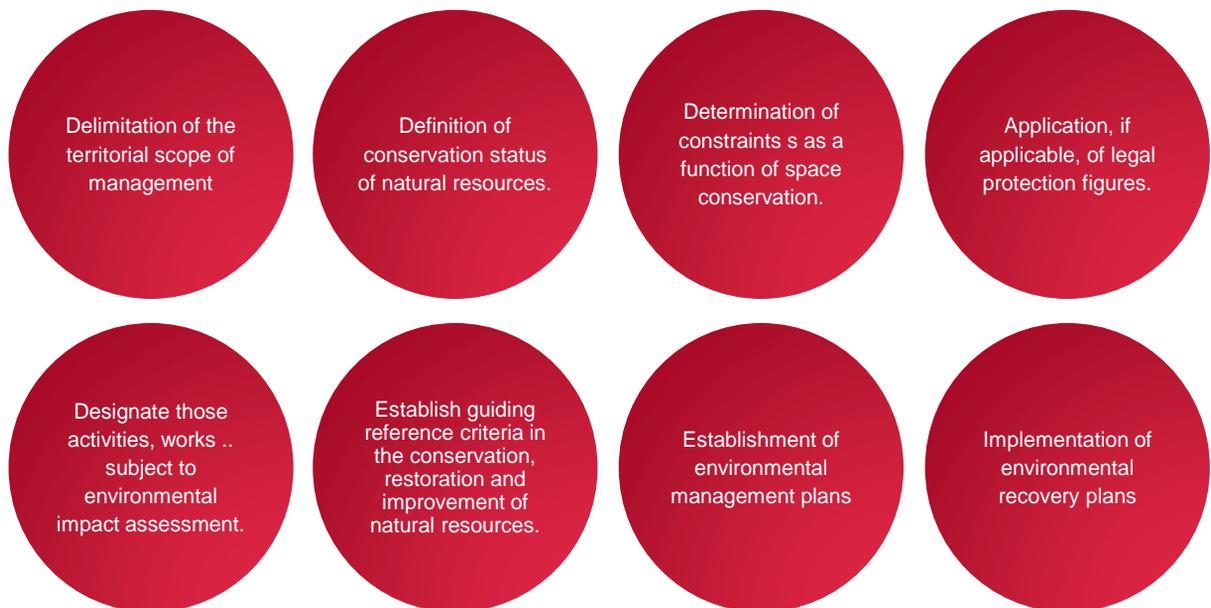


Environment

Natural Resources Management and Environment.

One of the fields in which TEYDE has specialized is the Natural Resources Management, developing various Management Plans, both at province and regional level.

The ultimate objective is to ensure the protection, conservation, improvement and rational use of Natural Resources as well as the preservation of each Natural Area. This service applies from a global perspective:



TEYDE has taken part in the drafting of Planning Plans and Special Plans of Strategic Equipments, contributing his experience in coordinating multidisciplinary teams, such as ours, in which are integrated horizontally specialties such as:

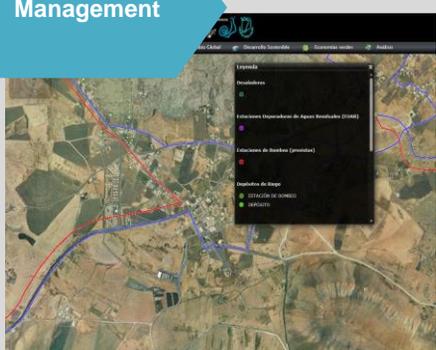
Environmental Sciences, Biology, Agronomy, Hydrology, Environmental Engineering, Geological Engineering, Edaphology, as well as others such as Sociology, Economics, Ecotourism, and others derived from particular situations.

Environment

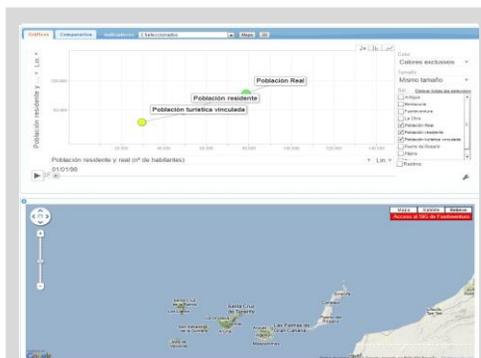
Inteligencia territorial: sistemas de gestión de espacios naturales.

We develop innovative solutions such as RBDigital for the global management of Protected Natural Areas (Geoparks, Biosphere Reserves ...) composed of a suite of management and participation tools adaptable to the characteristics of each natural space:

Management



GIS viewer



Indicators viewer



RB observatory

INFORMACIÓN PARTICIPACIÓN



Smart Portal

Consumo de agua Consumo de energía eléctrica



2008



2005

Sustainability watches



Reserve Apps

Environment

The main features of Rbdigital are as follows:

-1-

Customizable:

Because there aren't two equal Natural Spaces, RBDigital allows a high level of customization.

-2-

Interoperable:

Because there aren't two equal Natural Spaces, RBDigital allows a high level of customization.

-3-

Modular and scalable:

Local space authorities can select which modules they want to implement and choose the level of personalization of the same, allowing in the future to implant the rest gradually, The objective: to adapt to their real needs and economic capacity of each Reserve.

-4-

Flexible:

Easily adaptable to the management of a wide variety of protected natural areas.

-5-

Innovative features.

Like the models of dynamic simulation, that allow to generate scenarios predictive of the behavior of the natural systems, allowing to anticipate us to the future events. They facilitate the study and long-term analysis of environmental and sustainability-related problems through the integration of social, economic and environmental factors.

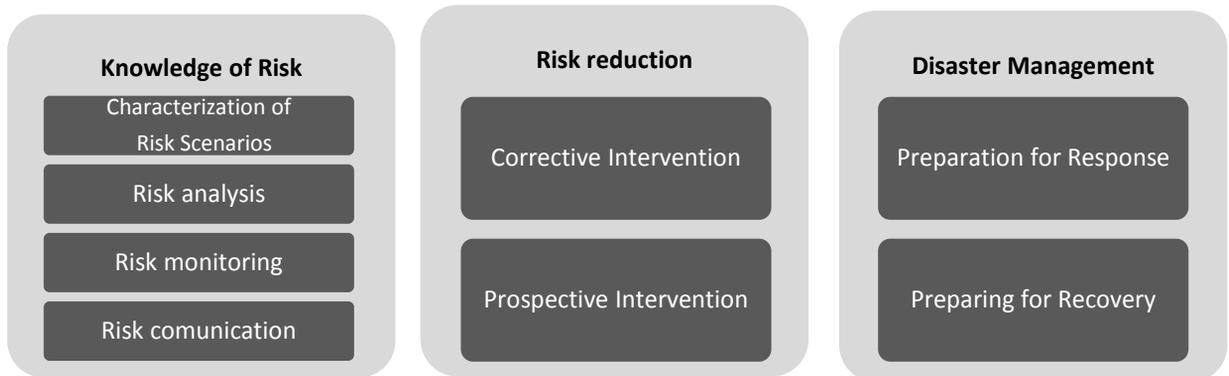
Natural hazards

Ordination of natural hazards.

TEYDE has extensive experience in the management and analysis of natural risks, being one of its main areas of work, having developed important research projects (R & D & I) in this field.

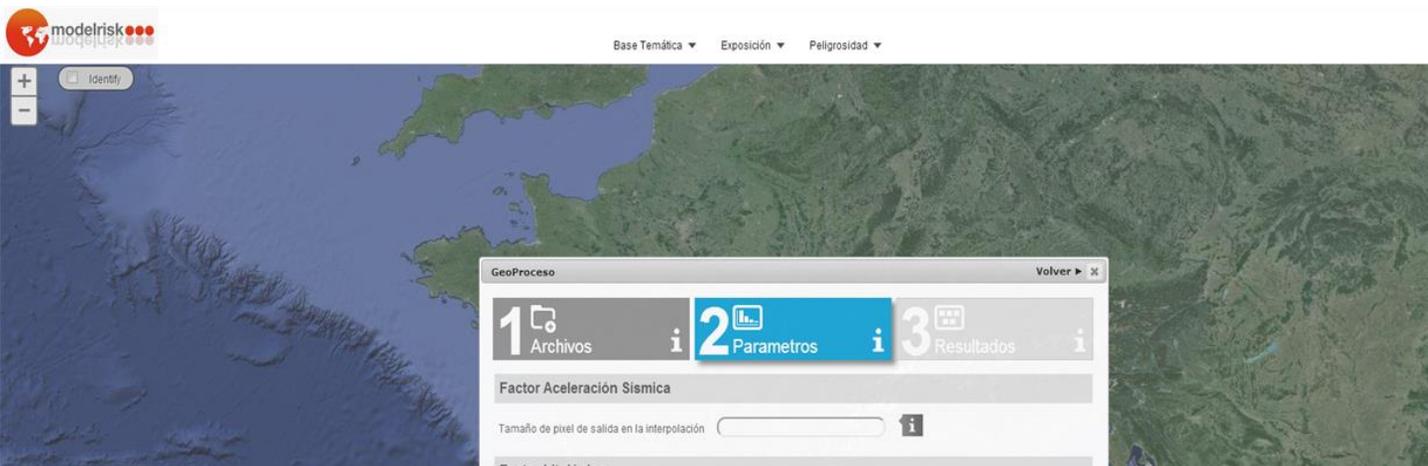
The role of Risk Management is to guide the development of a community, under a vision of both causes and consequences. We are experts in specific studies for the Quantitative Assessment of Natural Risks derived from terrain movements, floods and seismic risk.

We provide services in all processes of risk management:



What is our added value?

We use our own tools that combine GIS analysis with dynamic simulation tools; So that in addition to automating the definition and calculation of hazard, exposure and vulnerability to risks, it is possible to dynamically simulate future scenarios, constituting a key decision tool for urban and territorial planning.

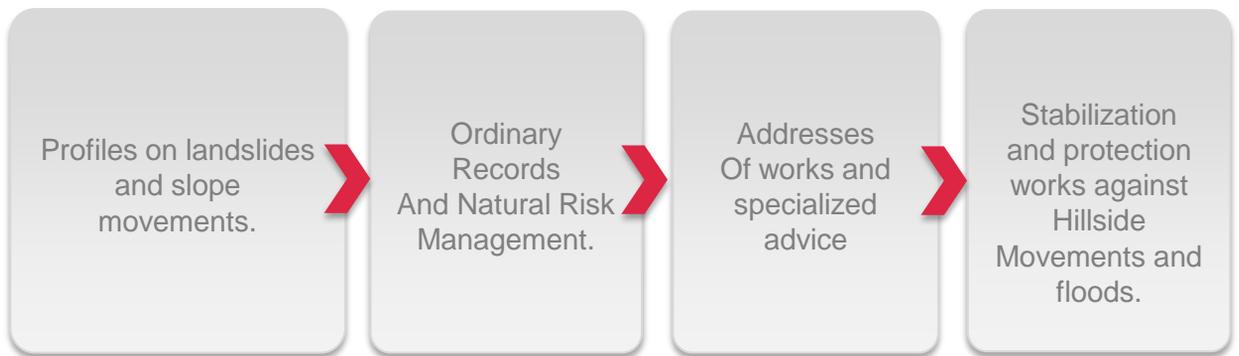


Natural Hazards

Stabilization against Natural Hazards

Natural risk studies are aimed at reducing risk from unacceptable values to tolerable values. The work of **TEYDE** in this field focuses on the study and characterization of risks, **definition and design** of measures of prevention and mitigation of risks, as well as the implementation and implementation of protection measures.

We provide a comprehensive service that includes:



The company TEYDE accumulates a wide experience in this type of risks, with an offer that stands out in the following aspects:

- Methodology of work.
- Scale of study. From regional to construction projects.
- Technical means. Topographic, GIS applications and analysis of detachments.
- Human resources. Engineers and geologists with extensive experience in this field.

Natural hazards

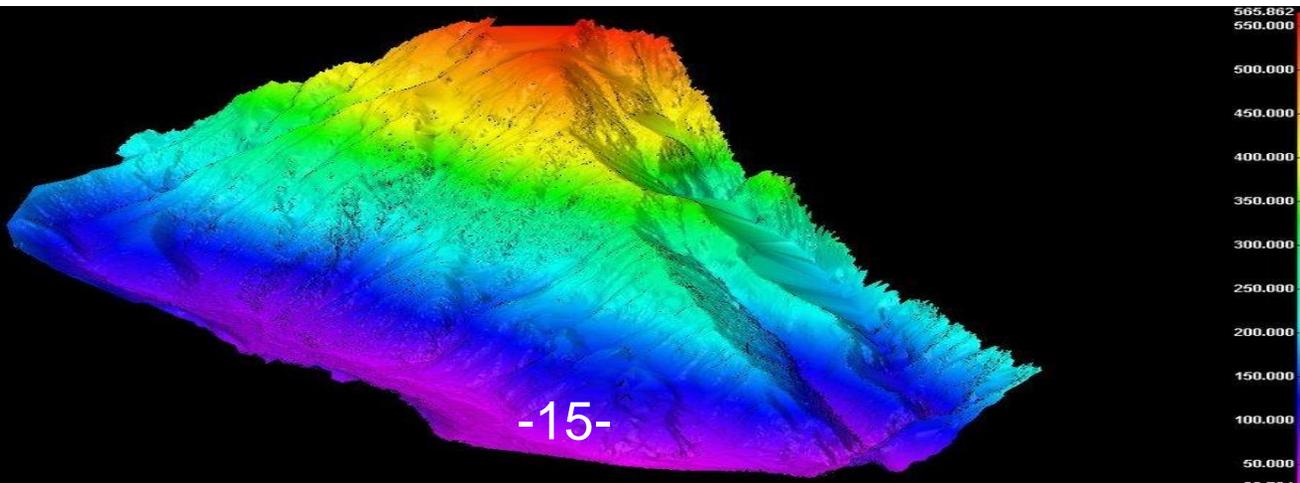
Stabilization against Natural Hazards

TEYDE, through the use of all cutting-edge technological tools, offer an exclusive product that is clearly differentiated, contributing to our offer an added value that does not differentiate. The use of these tools is mainly done to:

- Prioritization of actions: The most sensitive areas are identified for the development of action projects.
- Increased security: The identification of priority areas allows directing the actions to the most conflicting points.
- Reduction of overall costs through the realization of profiles and files.

Some of the most outstanding features of our tools :

- 3D Surveys by LASER SCANNER GLS-1000
- 3D trajectory analysis
- Calculation of energy
- Prospecting through digital optics of the areas at risk
- Optimization and dimensioning of protection measures



Natural hazards

RIMAP

Risk Management Platform **[RIMAP]** Is a tool that aims to solve most of the existing shortcomings with respect to the management of geological risks :

- Harmonization of risk mapping.
- The insufficiency of the necessary tools to be able to fully evaluate the risk and establish the procedures for its reduction.
- The necessary involvement of all social actors in risk mitigation.

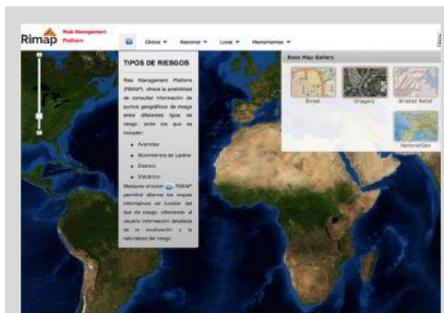
RIMAP, as a collaborative platform for the integral management of natural risks, is a tool of support and decision for all actors involved:

Citizenship, Infrastructure Planners, Politicians and Administrators, Educational Community and Emergency Services.

RIMAP

It is composed by a complete suite of tools that allow a global treatment of irrigation :

- management,
- tracing,
- information
- training.



SIG Viewer



Collaborative tool



Web portal



Educative module

Geographic information systems

The use of advanced Geomatics technologies opens new possibilities of practical application in diverse fields of the management, management and monitoring of the natural resources.

TEYDE incorporates the use of tools such as Geographic Information Systems (GIS) and LIDAR mapping to implement new spatial-temporal analysis methods in the management of natural resources and the environment.

TEYDE works with industry-leading ESRI technology, with full licenses of both ArcGIS 10.2 for desktop and ArcGIS for Server, which gives it great versatility not only for performing all kinds of spatial analysis and geoprocessing in technical studies Also for the creation of web applications and mobility that require the management and visualization of cartography.

GIS allows the handling of large volumes of geo-referenced geographic information from a wide range of socio-economic and environmental issues, facilitating analysis and decision-making, obtaining much more accurate results and saving significant amounts of time and money.

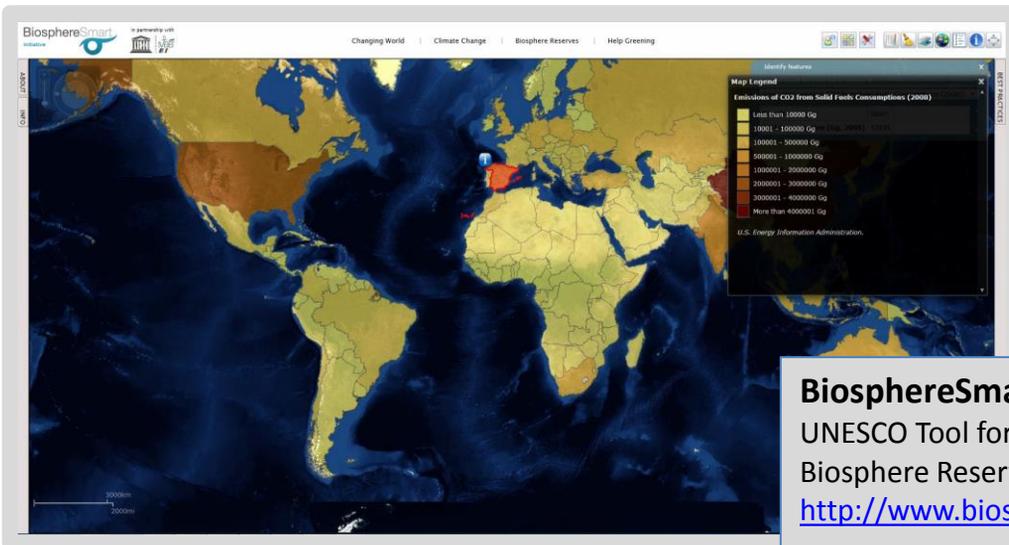


Geographic information systems

BiosphereSmart y BRsmart

The protected natural areas (Biosphere Reserves, Geoparks ...) are areas where there is a coexistence between conservation and socioeconomic development, increasingly necessary for self-maintenance.

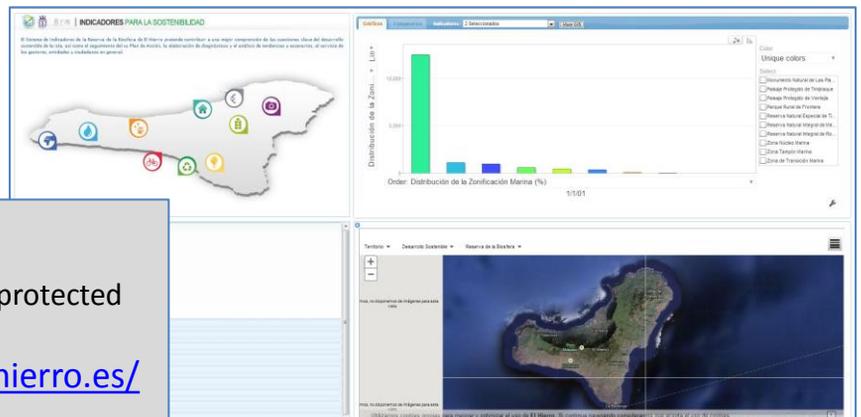
At TEYDE we develop innovative solutions that allow the integral management of these spaces, facilitating the achievement of the objectives of development, conservation and participation marked for them.



BiosphereSmart.

UNESCO Tool for the Promotion of Biosphere Reserves

<http://www.biospheresmart.org/>



BRSmart.

Tool of integral management of protected natural spaces.

<http://www.observatorioelhierro.es/>

Teledetection

Satellite images represent an important source of data to work on the territory. TEYDE incorporates the use of technologies such as Remote Sensing to develop new methods of data acquisition for its application to the management of natural resources. Among the services provided by TEYDE are:

- Monitoring of natural parks and protected areas.
- Quality studies of coastal waters. Detection of pollutants on the coast.
- Follow-up of coastal works and management of marine resources.
- Detection of changes in vegetation cover early follow-up of the desertification process.
- Detection, prevention and fire monitoring.
- Monitoring the recovery and restoration of burned and / or degraded areas.
- Natural hazard maps.
- Slope and flood movements.



Xinjiang (China). Imagen obtenida por RAPIDEYE . Fuente: RapidEye.

Agriculture: monitoring of agricultural activity at high temporal frequency and at individual, regional and global crop scales. The information obtained from the images can assist farmers in precision agriculture activities, insurers in damage assessment and risk management, or governments in matters of food safety and environmental supervision.

Specific infrastructures.

We support the development of **specialized infrastructures in the areas of the renewable and mining sector**; We make the quality, safety and care for the environment fundamental pillars in our work. Our areas of expertise are:

- Renewable energy
- Mining sector.



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