COMPANY PROFILE

The AGRI-PRO AMBIENTE is a majority capital Portuguese firm, founded in 1991, with more of 20 years of environmental and planning consultancy services in different parts of the world. As part of an international engineering group with branches in Africa, Asia, America and Oceania, AGRI-PRO has a very diversified experience in all kinds of environmental planning, management, licensing, construction, monitoring and supervision of projects in different situations and legislation frames.

Based in Lisbon and Oporto, comprises a very specialized multidisciplinary body of permanent staff and experts composed by Chemical and Environmental Engineers, Geographers, Specialists on Environmental, Regional Planning and Management of Protected Areas, Architecture, Biophysics, Biology (ecology, and terrestrial and aquatic flora and fauna.), Social Economics, Hydrology, Hydraulics, Geology, Geomorphology, Water quality (physical, chemical, biological and models application ), Noise (models application of models), Air Quality (dispersion models), Risk Assessment (safety and ecological, with models application), Landscape, Agriculture, Irrigation and Rural Development, Site Contamination and Abandoned Mines Recovery including Radioactive sites, Tourist Resorts including Golf and protected areas. All these specialists are supported by a Department of Cartography and Geographic Information Systems, Design, as well as all the field work material needed for characterization and analyses of biology, water, air, noise and soil aspects.

The application of the most exigent international methodologies and procedures based on the international legislation and the highest standards of the international regulators as European Union, United Nations and World Bank express on our certificated system ISO 9001 and IQNET are the guarantee that a high level of quality is always achieved.

The experience of AGRI-PRO AMBIENTE in recent years is extensive, diversified and complex and can be summarized:

- on the field of the **projects of transport infrastructures as roads, highways, railways, power lines and pipelines**, hundreds of studies with thousands of kilometers globally, in all phases, defining and choosing the more environmental friendly corridors, evaluating the location and final design, preparing all permits and licensing, promoting and conducting the public participation, designing the mitigation and compensation measures, preparing the environmental quality plan for the construction and assuming the management and monitoring plan on the exploitation. In these transport infrastructures it is important to underline the **implementation of High Speed Train in Portugal**, where AGRI-PRO had a large participation on the connection Lisbon-Madrid and Lisbon–Oporto, several connections for freight traffic between ports and inland and also the projects and construction of the light urban train on the towns of Oporto, Coimbra and Almada. On the pipelines, AGRI-PRO has performed several inland projects for natural gas transportation and also for oil and multipurpose, including the storage facilities in tanks and in underground salt mines, and also sea lines for the offshore transfer of crude to the Oporto Refinery and storage on the Madeira Island.
on the field of **Energy**, the experience of AGRI-PRO is exceptional with high level of technical capabilities in all areas of sustainable and renewable energy as wind farms (more than 60 terrestrial and sea), large hydroelectrically dams plants, mini hydroelectrically dams, combined cycle thermoelectric power plants, wave plants and the facilities for storage of natural gas, sea liquefied gas terminals in Sines and Madeira and power stations. This experience is also wide on the thermoelectrically cool and fuel energy production, the expansion of refineries, definition of mitigation measures, licensing, risk evaluation and treatment facilities for waste water, air and solid waste and muds.

- on the field of **Industries**, AGRI-PRO worked on the more complex projects of refineries, cement plants, transformation industries, industrial parks and infrastructures, LNG terminals, storage parks, chemical and petrochemical plants, including the risk assessments and simulation of extreme events. These included a significant experience in the preparation of Emergency plans, Safety Management Systems, licensing and environmental protection measures projects.

- on **ports and harbors**, one of major strategic Portuguese development areas, AGRI-PRO has worked in all phases of the major sea Industrial Harbors expansion as Sines, Figueira da Foz, Aveiro and Leixões and overseas, in Luanda, Lobito e Benguela (Angola) and Maputo and Beira (Mozambique), including dredging activities, control of pollution, evaluation of sediments, treatment plants and implementation of the Marpol convention. Also in Fisheries ports, the development of strategic planning and local organization with new facilities for storage, boat protection, cool, new moles and piers have been studied and approved in several coast villages.

- **Water resources** are nowadays one of the major concerns of humanity and the need of quality and quantity protection as a basic element for survival of the human kind, but also as a support of the biodiversity, are essential and are on the centre of all environmental agendas. AGRI-PRO is a specialized company on the implementation of the planning and protection of water bodies using the Water Framework Directive of the European Union. AGRI-PRO has lead the environmental, agriculture and water quality parts of Water basin plans of the rivers Vouga, Mondego, Lis and the international river Minho and has finished, this year, the management basin plans of more than half of the Portuguese river basins (the hydrographic regions of the North and Center – RH 1, 2, 3, and 4). AGRI-PRO has coordinated the global plans for the European Union and all the specific areas of environment and water quality during 2 years and for an area of 39 377 km², including lakes, lagoons, humid areas, protected areas, rivers, reservoirs, aquifers and coastal water bodies. AGRI-PRO has also developed several studies and projects for the design of environmental recovery of rivers, lagoons and contaminated and degraded sites in Portugal, Brazil and China, including management plans, recovery and recharge of aquifers and treatment of diffuse pollution.

- on the **Planning of Protect areas, Biodiversity and Sustainable Development** AGRI-PRO has developed several Management Plans, studies and projects, namely in Brazil, Portugal and Macau (China): between 2005-2006 for the government of the State of Bahia in Brazil, with support and administration of the InterAmerican Development Bank (BIRD); in Macao, for the Government of this autonomous region of China, several plans for the recovery and planning of humid areas with high value for birds, migration and nursery on the Pearl River; in Portugal, innumeros management plans of large reservoirs in sensitive and protected areas, related to human water use and biodiversity (Touvedo, Lindoso, Vilar, Divor, Aqueira, Fronhas), coastal lagoon system in Algarve (South coast of Portugal), protected as birds migration and nursery sites, humid areas in abandoned mines with decontamination and requalification projects and compensation measures and plans as obligation of Investment projects.

---

**AGRI-PRO AMBIENTE Consultores, S.A.**

Rua Castilho, n.º 65, 3.º Esq. – 1250-068 Lisboa. Portugal

Tel.: +351 213 828 040 • Fax. +31 213 828 050 • e-mail: lisboa@agriproambiente.pt

Avenida da República nº 2491, 4º Andar - Salas 42/43/44 – 4430-206 Vila Nova de Gaia. Portugal

Tel.: +351 223 779 430 • Fax. +351 223 779 433 • e-mail: porto@agriproambiente.pt • url: www.agriproambiente.pt
– on the **design of treatment plants and facilities**, AGRI-PRO has a significant experience on the conception, complete design of solid waste treatment, water treatment and sewage, and on the supervision of the construction and exploitation. On the solid waste, AGRI-PRO designed several systems for domestic, industrial, demolition and dangerous wastes, especially at controlled landfills, transfers stations, composting, separation and recycling in Portugal, Angola and Algeria. Has also an extensive experience dealing with radioactive dump sites, especially in abandoned mines and on the energy production from biological conversion. Has also made several closures and environmental rehabilitation of landfills. The planning of integrated solid waste management systems with definition of the more adequate location of the facilities, the better solutions on the market and for the region, the collection, transport, transfer and valorization are also one of the expertise of AGRI-PRO. On the field of water treatment, AGRI-PRO is specialized in industrial and sewage treatment and natural and passive systems used in natural areas, recovery of contaminated sites and control of diffuse pollution affecting water sensitive bodies.

– On the field of the design of **mitigation measures** as noise abatement with the preparation of 3D noise maps and barriers, air pollution treatment and modeling, water pollution control and treatment, definition of best technologies and design optimization.

– On the field of **Socioeconomics, Sociology and Heritage**, AGRI-PRO has a very experienced team that has dealt with the more sensitive situations, studies and solutions. The characterization of the human factors and the definition of prospective evolution, pressures and economic constraints are fundamental in all evaluations and strategies. The adequate mobilization of the population, the better solutions for a sustainable development, the preservation of the heritage, and specially the public participation, information and cooperation are bases of a long and successful experience of AGRI-PRO, including the use of Internet, construction of specifics interactive sites, presentations, brochures and structured inquires. Find solutions for the development of the Tourism, the local economy and the sustainable agriculture is the basis for all planning and projects.

– On the field of **Applied Biology**, AGRI-PRO has a team of various specialists in the different areas of Biology/Ecology (flora, birds, bats, mammals, amphibians, reptiles, invertebrates, aquatic communities, Water Framework Directive, etc), supported by specific technical equipments, laboratory material and software related to statistics and ecologic modeling. Studies for site characterization are performed with accuracy, which guarantee a profound knowledge of the actual situation and the existing constrains, allowing the proposal and conception of adequate and cost-benefit mitigation and compensatory measures. Projects for recovery and rehabilitation of degraded areas, abandoned mines, rivers, marshes and dunes, sensitive areas and ecologic corridors has been designed and implemented, with technical solutions and interventions for instance, in fauna transposition, fragmentation reduction, bats shelters and exotic control. Monitoring and management of ecologic systems during the various phases of the project has also been another activity developed by AGRI-PRO.
On the field of **Soil and Aquifer Contamination**, AGRI-PRO has developed several site contamination studies related with chemical, oil and energy plants, abandoned and active mines (including uranium), dumping and landfills, ports and harbors sediments and dredging and old industrial areas. These studies are done applying the more updated instruments and methodologies of evaluation with sampling, analysis and application of 3D models of simulation for the dispersion on the soil and for groundwater. The specialized industrial, chemical and hydrogeology team of AGRI-PRO design the rehabilitation measures for the decontamination and reclamation of contaminated land and groundwater in all stages guarantying the liabilities, the future use of the area and the protection of the environment. The remediation of contaminated rivers, lagoons and humid areas by natural and biophysical methods are one major specialization of AGRI-PRO.

On the field of the **Project design of Landscape**, AGRI-PRO associates the normal landscape approach for the design of industrial, urban or infrastructures projects with the valorization of the biodiversity and recovery of autochthonous flora and ecosystems. The valorization of protected areas, rivers and humid areas and reclaimed landscape, with the reinforcement of habitats for protected species, is a strong area of AGRI-PRO experience.

On the field of the **Agriculture and Rural Development**, AGRI-PRO have an important experience in Africa, South and Central America, Asia and East Europe, on the support of farm and communities production and products commercialization, agro economics, irrigation, water supply, mechanization, rural roads, soil and erosion protection, education and gender promotion. The evaluation projects funded by the World Bank, BIRD and BAD are also part of this experience.

The **Environmental and Quality Management**, supervision of the construction and the exploitation with the follow-up of the implementation of the ISO 14001 of all types of projects including roads, railways, light urban trains, treatment plants (water and sewer treatment, landfills, composting and incineration), industries, pipelines, power lines, combined cycle power plants, dams, wind farms, transformation power stations, high speed train (TGV), harbors, refineries, prospecting, mines, recovery of natural sensitive areas and others, are major activities of AGRI-PRO. These included the implementation and execution of the monitoring plans and programs for water (superficial and groundwater), air, noise, soil, biology, landscape and social interaction as relocation of populations, conflicts management, education, information and inquiries. The preparation of reports, evaluations, auditing and sustainability are all guarantee by the specialized teams.

All this experience allows AGRI-PRO to perform, on the last years, several **Strategic Environmental Evaluations** of Regional Plans, Infrastructural plans and sensitive areas in a global approach that guarantees a sustainable development.

Finally, all these activities are supported by a department of **Cartography and Geographic Information Systems**, CAD, design and illustration that guarantees the preparation of all databases needed and its integration on the client’s databases in adequate formats.

A stable and experimented team, with a very diversified basic education and a solid team work, guarantees an integrated approach to all types of environmental projects with a very experienced coordination which constitutes an enrichment of each project, with a very early stage of identification of constraints and selection of the best alternatives, measures, programs and plans with optimized costs and efficiency.