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CONTROLLING INDUSTRIAL EMISSIONS AT SOURCE

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The aim of the project is to strengthen the Kingdom of Morocco's capacity to control the state of the environment using a mobile laboratory able to measure air pollution.

Aims: *To prevent pollution, to deploy tools to inform decision-making, to help polluting firms be compliant, to contribute to the implementation of waste management standards and ensure they are complied with;*

Area of intervention: *Environmental and regulatory controls.*

- **PROJECT OWNER:** Department of the Environment under the responsibility of the State Secretariat for Water and the Environment.
- **BENEFICIARIES:** The Moroccan people and in particular vulnerable individuals (the elderly, asthmatics and children) and the LNESP, whose capacity will be strengthened due to the acquisition of equipment and new technologies.
- **FINANCE:** Department of External Relations/Division of International Cooperation/Principality of Monaco.
- **LOCALISATION:** Large industrial Moroccan conurbations.

INNOVATIONS

- Manufactured by Environnement S.A, the turnkey mobile laboratory was specifically designed to measure emissions from different types of industries: thermal power stations, gas turbines, cement works, chemical and petrochemical industries, etc.
- Using a vapour tube, the laboratory is able to simultaneously measure polluting gases such as SO2–HCl–HF–CO-CO2-O2-NO/NO2, total volatile organic compounds (TVOC), non-methane hydrocarbons (NmHC), methane (CH4), flow parameters, temperature and pressure. The laboratory uses benchmark methods.
- A data acquisition system/data reporting system using iséo WEX software (a company of the Groupe Environnement S.A) was included in the laboratory.

STAKEHOLDERS

- **Partners:**
  - State Secretariat for Water and the Environment/Ministry of Energy, Mines, Water and the Environment
  - Department of Monitoring and Risk Prevention
  - Laboratoire National des Etudes et de la Surveillance de la Pollution (LNESP) (NB: in English, national laboratory for research and pollution monitoring)
  - Société Environnement S.A and Envirotec; its exclusive distributor in Morocco
- **Technical service provider:**
  - Environnement S.A, a key player in environmental pollution analysis, has considerable expertise in the following key areas: monitoring air quality, monitoring processes and smoke emissions, analysing gas engines, etc.

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IMPLEMENTATION

▶ Since 2001, the Principality of Monaco has supported (installing the first monitoring and measuring station in Morocco) the development of a national network for monitoring and controlling air pollution in Morocco. This partnership focuses on the development of an air quality monitoring network that includes around twenty measuring stations acquired using Monegasque and Moroccan funds. An agreement signed in 2008 aimed to help LNESP in its mission to control pollution by acquiring new tools and by training professionals and laboratory technicians.

Large conurbations in Morocco, like many other large international cities, have seen enormous urban and industrial growth over the last twenty years. While this development has increased production, generated significant employment opportunities for hundreds of thousands of families, it has also negatively affected mobility and the quality of the environment.

The issue of air pollution in Morocco, especially in large cities and industrial cities (e.g. Casablanca, Rabat, El Jadida, Safi, etc.), is a major concern for local authorities and citizens alike.

RESULTS

/// Acquisition of a mobile laboratory for measuring air pollution

/// Training LNESP employees to use and maintain the new instruments/tools

/// Strengthening the Kingdom of Morocco's capacity in terms of various environmental protection initiatives:

- resolving environmental conflicts related to industrial and artisanal activities
- advising and providing analysis services for industries wishing to improve their environmental record
- producing a register of air pollutants and mapping the concentration of pollutants in Moroccan conurbations

FINANCIAL ASPECT OF THE OPERATION

/// Implementation: 2012

/// Budget: €205,100