AIRQINO
air aware

Environmental Monitoring Systems
Air quality

AirQino Applications:

Industrial Areas
and Harbors

✓ Air Quality Networks

✓ Industries

✓ Harbors

✓ Data Hosting

✓ Real Time Data

✓ Data Analysis

National Research
Council of Italy

Services offered in collaboration
with the **Italian National Research Council,**
responsible for calibration and data validation.

Industrial and Harbors Areas

Industrial and harbor areas are often the cause of the presence in the atmosphere of toxic substances for the environment and human health.

Due to the change in wind speed and direction, as well as the large dimension of these sites, ad-hoc facility monitoring systems typically require multiple monitoring points.

Until recently, this could constitute an insurmountable **economic obstacle**.

AirQino breakthrough solution for these sites applications combines **high-performance** and reliability standards to economic sustainability, empowering our clients to establish networks that provide a solid full-site coverage.

Its wide range of sensor sets allows to monitor compounds such as **CL** (chlorine), **SO2** (sulfur dioxide), **H2S** (hydrogen sulphide), **NH3** (ammonia) and many other substances deriving from industrial processes.

AirQino can be installed along the **perimeter** of an **industrial area** to establish a virtual fence. The monitoring system can be deployed to provide both a **real-time** and historical assessment of the state of outdoor air quality or report potential gas leaks.

Autorità Portuale Livorno

Autorità di Sistema Portuale
del Mar Tirreno Settentrionale

TEA GROUP

QUANTA CUSTOM ELECTRONICS

AirQino Monitoring System

AirQino is a high precision environmental monitoring system.
A cost-effective solution designed to detect, store and analyze data about
the most important **air pollutants** and **chemical compounds**
present in the atmosphere.

AirQino was developed by **the Italian National Research Council** (CNR IBE)
in collaboration with TEA Group for the production and Quanta Srl for distribution.

Monitoring Stations

Indoor or outdoor, detect weather
conditions and the **concentration of
pollutants.**

Real Time Data

The **modular structure** of AirQino
allows to establish high-precision
monitoring networks.

AirQino Cloud

AirQino web platform collects data
and provides reporting and
analysis tools.

Calibration

Monitoring stations can be configured
with a wide set of sensors, calibrated by
CNR® using **official ARPA stations**.

Data Analysis

AirQino Web platform provides in-depth
data reporting and analysis tools.
Reports are available upon request.

AirQino Stations

AirQino stations allow to detect a wide range of pollutants such as: **NO2, O3, O3, PM2.5, PM10, CO2** and much more. Specific solutions are available for **industries or harbors.** Select one of our standard configurations such as **Agro, Chlorine, Industry,** or request a custom sensors set-up.

Industry

Chlorine

Agro

Industry and Harbor

For industrial areas and harbors we developed a version equipped with a sensor kit to detect substances such as **sulfur dioxide (SO2)** and **hydrogen sulphide (H2S).**

Wastewater Treatment Plants

For critical issues related to the presence of pollutants deriving from specifications industrial processing such as **chlorine (CL)** and **hydrochloric acid (HCL).**

Intensive Farming

Rural areas are often subject to pollution levels due to **agricultural** and **intensive farming** activities. AirQino Agro detects sbustances such **ammonia (NH3).**
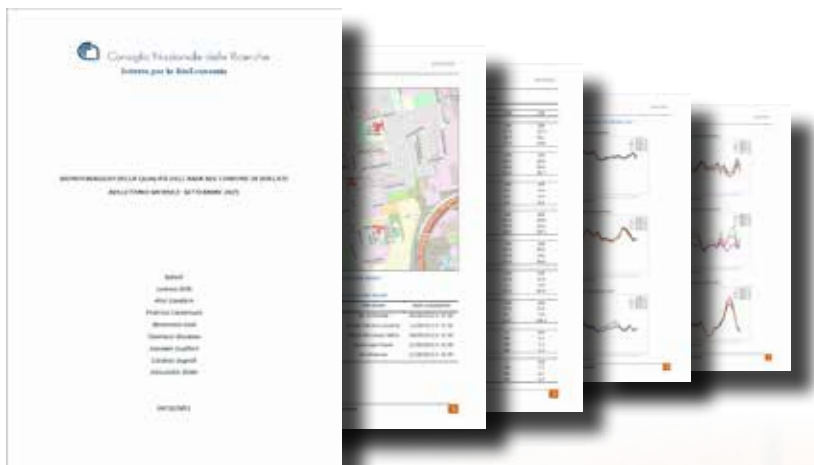
Data Hosting

Data detected by AirQino monitoring stations are transmitted to **AirQino Cloud**. Here they are adjusted with the respective calibration coefficients and **dedicated algorithms** to generate the final output data. Real Time Data are available trought **AirQino Web** (your Air Quality Map) or **APIs** for the integration with other dashboards. Upon request, our team can develop a custom dashboard for your project.

Data Analysis

Upon request we are proud to offer detailed, **custom reporting** services. **Bulletins and detailed reports**, studies and environmental assessments elaborated on the base of the data collected by AirQino systems. The documentation is officially produced by the **Italian National Research Council** (Bioeconomia Firenze) thanks to the official collaboration with Tea Group.

National Research Council of Italy

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