



GRUPPO **CSA**  
ISTITUTO DI RICERCA



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## About us

In 1985 a group of young and enthusiastic researchers decided to deal with environmental analyses in a multidisciplinary way by establishing the Centro Studi Ambientali Soc. coop. a.r.l.

A few years later, two companies were set up: CSA Sistemi S.r.l. (2000) and CSA Ricerche S.r.l. (2001) in order to better satisfy all customers' requirements.

In 2004, a turning point was reached: **The Research Institute – GRUPPO C.S.A. S.p.A.**, joining together all the three companies, was established.

### SERVICE AND WORK QUALITY

**is the main concept adopted by Gruppo C.S.A. that, at present, is among the most important Italian companies working in the environmental field**

The policy aimed at emphasizing and investing on human resources brought to form a team of highly qualified technicians and professionals offering **a service standing out from the others at a national level**, even thanks to the company many years experience and the constant technological innovation of the lab.

Nowadays, Acquiring technological innovation, research and development, valorisation of human resources and working in collaboration with important regional and national Bodies is the policy pursued by the Company. Both reliability and professionalism in performing services to the customer are of primary importance.

**Every question is both a motivating force and a challenge to always find adequate solutions**



Gruppo CSA new office



Labs

## Certifications

### **ACCREDIA**

Gruppo CSA S.p.A. laboratories are ACCREDIA accredited (n.0181) according to UNI CEI EN ISO/IEC 17025, which is the standard certifying the quality of the methods used and the reliability of the data obtained.

### **Quality Management System Certification**

Certification of compliance with UNI EN ISO 9001:2000 on “Sampling, chemical-physical and microbiological analyses, planning and supplying of consulting and research services on food, environment, work safety and management systems”.

### **Environmental Management System Certification**

Certification of compliance with UNI EN ISO 14001:2004 on “Sampling, chemical-physical and microbiological analyses, planning and supplying of consulting and research services on food, environment, work safety and management systems”.

### **Highly Qualified Laboratory**

D.M. 26-2-87 PAR.4 – Law 46/82 for applied research and technological innovation

### **Registration in the list of Laboratories of Emilia Romagna region, number 008/RN/002**

## Laboratory

Gruppo CSA S.p.A. Laboratory is ACCREDIA accredited (accreditation n. 0181) as provided for by the Standard UNI CEI EN ISO/IEC 17025 certifying the quality of both the methods used and the data obtained.

The main methods performed by the Lab are officially recognized by Italian and International Standards (APAT CNR IRSA, ICRAM, APHA, UNICHIM, ASTM, SEPA, UNI EN, NIOSH ecc.) and they all are SINAL accredited.

**Over 70.000 samples per year are analyzed by this lab and 800.000 parameters are determined. These figures are reached by only a few laboratories in Italy.**

- **Water**

- Drinking water
  - Waste water
  - Surface Water
  - Ground water
  - Swimming pool water

- **Soils**

- Soil marine and river sediments
  - Agronomic soils, compost, biostabilized, ammendants

- **Air**

- Lab chemical analyses of "Emission" samples:  
Search and quantification of contaminants sampled from penstocks of large plants, icinerators, chimneys of industrial and manufacturing plants;

- Search and quantification of aerodispersed contaminants sampled from diffuse emissions (ex. landfills and composting plants) through static and dynamic capture chambers.

- Microbiological analyses of air samples

- **Waste**

- Samplings and characterizations of industrial solid and liquid waste and waste products of different origins are carried out in order to classify and adequately dispose them of

- **Plants and by-products**

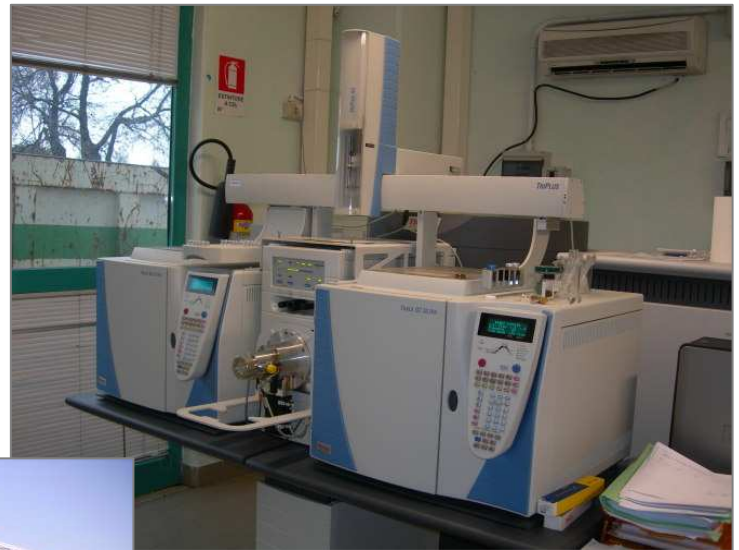
- **Chemistry and Food Microbiology**



## Lab instrumentation

Some of our lab instruments are listed below:

High resolution mass spectrometer with DFS Dioxine B type model DFS Dioxine B – Thermo Electron Corporation (HRGC/HRMS)  
Quadrupole mass spectrometer HP GC/MS (HRGC/MS)  
Gas chromatograph  
High performance liquid chromatograph HP  
Plasma source mass spectrometer ICP/MS A7500 Agilent  
Atomic emission spectrometer with simultaneous inductively coupled plasma Varian  
Atomic absorption spectrophotometer Varian  
Atomic absorption spectrophotometer with gold amalgama for mercury determination Sedigraph III 5120 Micromeritics  
TSQ Quantum Aceff Max LC MS Thermo



High resolution mass spectrometer with DFS Dioxine B type model DFS Dioxine B – Thermo Electron Corporation (HRGC/HRMS)

mobile laboratory for the determination of organic contaminants - on site equipped by HD-HRGC/MS

## Technology & Environment

"Technology & Environment" (T&A) was established in 2005 as highly specialized department in planning and sampling all environmental matrices. The T&A activities come from the need of knowing and analyzing the environment. The experience acquired allows us to understand the manifestations occurring in the environment and to have the ambitious target to know their evolution.

### Air quality

- Urban pollution
- Industrial pollution
- Atmospheric depositions
- Meteorology
- Survey stations remote control
- Quality of the data collected in situ and through the sampling
- Emissions into atmosphere
- Industrial plant control
- Large industrial plants such as incinerators, foundries, sugar refineries, etc.
- Car industries
- Petrochemical plants, oil refineries
- Purifiers and Dumps
- SME control (Dlgs 152/2006, UNI EN 14181/2005)
- Diffuse emission detection and quantification
- Gas survey installation and monitoring
- Biogas sampling and analysis

### Landfill (D.lgs 36/2003)

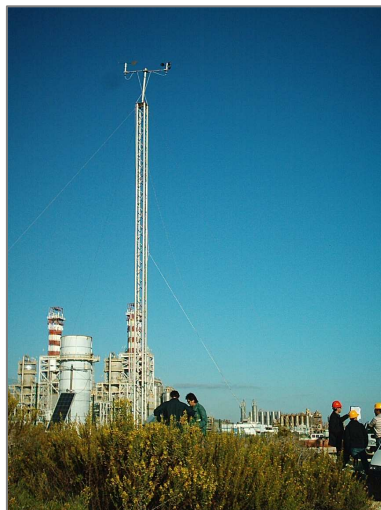
#### Work environments

- Worker protection against chemical and microbiological agents D.Lgs 81/08
- Chemical risk assessment D.Lgs 81/08
- Air pollutant detection in technological processes
- In situ measurements through portable analyzers
- Microclimate measurements

### In situ sampling and analyses

- Ground water sampling
- Static and dynamic samplings
- Polluted site monitoring
- Surface water sampling
- In situ measurement
- Terrestrial water sampling through selective samplers
- Coastal-marine and transition environment samplings through dedicated instruments
- Flow measurement
- Run-off calculation with two and 3dimensional reports
- Suspended solid transport measurement
- Equalized industrial wastewater sampling
- Soil sampling
- Sediment sampling
- Waste sampling according to UNI 10802:2004
- Our company has a team of divers with ISSD-CMAS patent

**T&A has different mobile laboratories for air quality with equipment for dust sampling and meteorological data collection.**



# Physical Analyses, Industrial Hygiene, Safety and Food Hygiene

The Division includes all the consulting activities for all the Productive Activities such as Industry, Handicraft, Services and Trade aimed at solving legal-technical problems about Safety, Work Environment and Food Hygiene, physical analyses, Legal Advice, training and didactics.

The professionals working for this Division are highly qualified and they have great experience and knowledge in their field of competence that make them able to meet any clients' requirements.

## Physical Analyses

- Assessment of both the existing noise climate and noise impact produced by different emitting sources (road and railway infrastructures, yards, machineries, etc...), according to D.P.C.M 01/03/1991, Law n. 447 del 26/10/1995, D.P.C.M 14/11/1997, Decree 16/03/1998;
- Assessment of the vibrations produced inside buildings to detect the disturbance caused to residents (according to UNI 9614-1990) and the possible damages to the building (UNI 9916- 2004);
- Electromagnetic field assessment produced by non-ionizing radiations (high and low frequency) according to D.P.C.M. 08/07/2003 and specific regional laws; Determination of building passive acoustic requirements according to D.P.C.M. 05/12/1997; Modelling through an acoustic simulation software and designing of acoustic reclamation works

## Industrial Hygiene and Safety

Consulting on D. Lgs. 81/08 and following amendments ("Healthcare and safety at work")

Specific risk assessment:

- Physical agents
- Chemical agents
- Carcinogenic and mutagenic agents
- Asbestos
- Biological agents
- Explosive atmospheres (ATEX Directive)

## Food hygiene - HACCP System



## Management Consulting System and Waste Analyses

Management Consulting System and Waste Analyses carries out two services very different each other but with the same principles and methods.

The consulting activity on Management System application is aimed at supporting organizations in carrying out analyses and solutions of applicative problems through:

- study and analysis of the standard of reference
- analysis of the context where the service has to be performed
- development through the involvement and training of the -customer's staff in the setting up of an effective system meeting all the specific requirements

The research on fluxes and materials is aimed at supporting organizations in planning monitoring activities through:

- study and analysis of both monitoring requirements and data quality
- analysis of the flow of the material to be monitored
- development of monitoring plans-campaigns in cooperation with the customer, included data processing and presentation
- guidance on customer needs, high professionalism of our consultants and technicians are the common characteristics of the activities carried out by our Division



# Project, Research and Development

Research & Development have always been two of the most important activities included in the company strategy. For this reason, a substantial part of Gruppo CSA investments is assigned to them. The competences gained in the last twenty years of activity led to the acquisition of a great experience in the field of environmental studies which is the main subject of this Division.

Research & Development is the direct link between research and objective needs. For this purpose, besides research and development, it follows and coordinates complex and interdisciplinary projects requiring a high level of professionalism and experience, to support the customer in all the environmental aspects of the different stages of a project: preliminary planning and carrying out of the activities, interpretation of monitoring results and proposals for intervention. Networking with the most important National and European public and private collaborators is the best way for reaching all the objectives.

This allows Gruppo CSA to develop both the existing services and new projects in order to become a reliable and always in the forefront partner with regard to methodological, instrumental and technological applications.

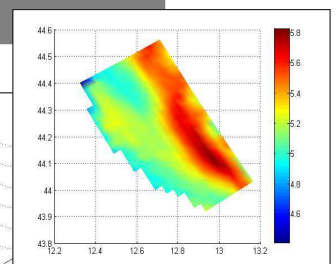
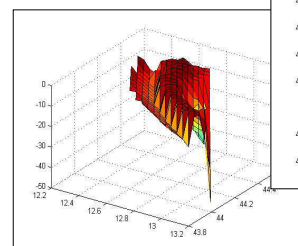
## Projects

- Planning and monitoring plans of major infrastructures
- Research on the ecosystem
- Environmental Impact Assessment (EIA)
- Strategic Environmental Assessment (SEA)
- Analysis of environmental sustainability
- Environmental Integrated Authorization (EIA)
- Reclamation interventions and environmental restoration
- Environmental monitoring for monitoring and control plans of dumps
- Integrated coastal zone management
- Study and development of analytical methods and use of innovative instruments
- Development of Decision Support Systems (DSS)
- Experimental studies as a support to the building of sustainable infrastructures
- National and international scientific research projects



## Research and Development

- *problem solving* for Gruppo CSA customers and possible search for financing programs
- participation at different regional, national and European Research and Development programmes such as PRRITT, FIRB and 7<sup>th</sup> Framework Program

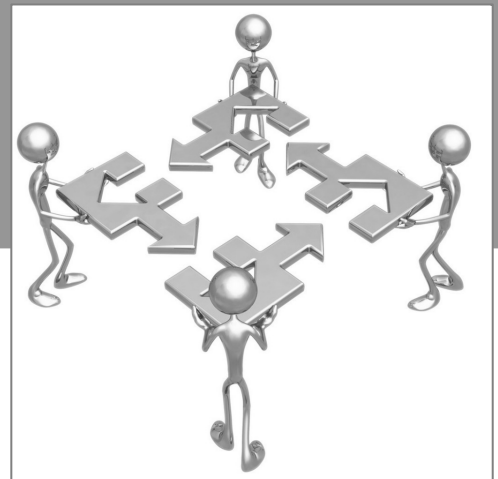


## Collaborations

We favour the collaboration with University research institutes, other kinds of institutes and public and private laboratories in order to supply a service more and more professional and innovative.

### Main collaborations:

- Consiglio Nazionale delle Ricerche (National Research Council)
- Istituto Nazionale di Apicoltura (National Institute for Beekeeping) office of Bologna
- Istituto Nazionale di Ricerca per gli Alimenti e la Nutrizione (National Research Institute for Food and Nutrition) office of Rome
- Università di Ancona (University of Ancona)
- Università degli Studi di Bologna (University of Bologna)
- Università di Ferrara (University of Ferrara)
- Università di Milano – Bicocca (University of Milan - Bicocca)
- Università di Trieste (University of Trieste)
- Università di Urbino (University of Urbino)
- Università Ca' Foscari di Venezia (University of Venice - Cà Foscari)
- Università dell'Insubria (University of Insubria)
- Columbia University
- The City University of New York Queens College



## References

### List of some of our main customers:

a.i.a. rimini  
anas  
ancona ambiente  
arpac agenzia regionale  
arpa emilia romagna  
asm spa brescia  
castelcolonna ambiente  
cial  
cnr-ismar  
co.re.ve  
comune di orbassano  
comune di rimini  
comune di urbino  
comune di venezia  
comunita' montane valle del metauro  
conai  
confartigianato rimini  
consorzio nazionale acciai  
coop. muratori cementisti di ravenna  
cooprogetti s.c.a.r.l.  
corepla  
ecomangement s.r.l.  
enel produzione spa  
enereco s.c.a.r.l.  
environ italy s.r.l.  
erg petroli  
eurovie scarl  
ferrari s.p.a.  
fisla italia  
foster wheeler italiana s.p.a

golder geoanalysis s.r.l.  
hera  
hydrodata spa  
impresa di costruzioni mantovani  
industrie valentini  
istituto nazionale di apicoltura  
italferr spa  
kuwait petroli  
lara s.r.l.  
magistrato alle acque di venezia  
marche multiservizi  
maserati s.p.a.  
proger s.p.a.  
provincia autonoma di bolzano  
provincia autonoma di trento  
provincia di perugia  
provincia di pesaro – urbino  
rct srl  
rfi – rete ferroviaria italiana s.p.a.  
scm group  
sfir s.p.a.  
società del gruppo eni  
sogepu  
sogliano ambiente  
spea autostrade s.p.a  
tecnic s.p.a.  
thetis spa  
universita' di urbino  
urs italia s.r.l.



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