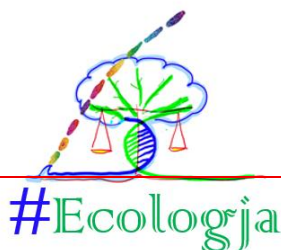


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# Information **#ecologja** c.r.s.g.

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Milan, april 17, 2026



**#Ecologja** c.r.s.g. *Contratto di Rete No Profit dotato di Soggettività Giuridica*

**Sede Legale:** c/o Studio Legale Salvemini piazza Bertarelli n° 1, 20122 Milano- [ecologja@pec.it](mailto:ecologja@pec.it) **WEB:** [ecologja.com](http://ecologja.com)

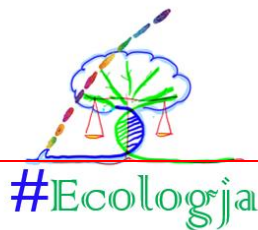
**Sede eurofins|Environ-Lab#Ecologja:** Via Don Bosco n° 3, 27014 Corteolona e Genzone Pavia

**Sede ARIANET|SUEZ#Ecologja:** Via Benigno Crespi n° 57, 20159 Milano

**CF-P.IVA:12637220968 \_ SDI: WYZPJ6K \_ REA: MI-2674233 \_ATECO: 74.90.43 \_ IBAN:**

**Sede Ufficio Coordinamento Gruppo di Lavoro Valutazioni Integrate di Impatto Ambientale e Sanitario  
GdL.VIIAS. IMN.UNINS#Ecologja:**

c/o DipRicAeS di IMN in via Mario Negri n° 2 -20156 Milano e c/o EPIMED di UNINS in via Monte Generoso 71, 21100 Varese



#Ecologja

and

# Environmental Healthiness # One Health

## Project Vision and Foundational Ethical Concept

In Milan, on July 28, 2022,

a business network was created from the passion of a group of individuals and from the philanthropic initiative of several companies that decided to contribute to safeguarding our future and that of our planet.

Consequently, the Network aims to provide an

Excellent Service in Scientific Consulting, pursuing the objective of protecting the concept of “Global Environmental Health – One Health”,

operating to the best of its expertise in:

– Environmental and Health Impact Assessments –



## The Italian Constitution and the protection of Health

The Italian Constitution, since 1947 in Article 32, states that the Republic protects health as a fundamental right of the individual and in the interest of the community. In 2022, amendments were introduced to Articles 9 and 41 regarding the protection of Health and the Environment, incorporating the principles of environmental protection and sustainable development “also in the interest of future generations.” We therefore considered it imperative to apply our expertise to verify that human activities are carried out with respect for the environment, safeguarding the essential balances of the ecosystem that surrounds us. Thus, in July 2022, through a philanthropic initiative, several companies

broke the deadlock and decided to found the **#Ecologja Business Network**. The Network is open to collaboration with companies and institutions that wish to contribute through their actions to safeguarding **Environmental Healthiness**, with a program based on **Applied Research** aimed at providing an **Excellent Service in Scientific Consulting**, pursuing the objective of protecting the concept of “**Global Environmental Health – One Earth – One Health**”, and ultimately offering regulatory guidance suitable for legislative updates where necessary.

Inspired by the unique history of the moral institution known as the “Istituto Mario Negri”, and sharing its ethical code and moral principle of operating **non-profit**, they choose to rely primarily on the health expertise of IMN and UnInsubria, signing specific research agreements that also include the provision of territorial experimental services related to the **Monitoring of Industrial and Environmental Impact**.



The members of the business network with the elective collaboration of: <sup>1</sup>



**For Health and Environmental Impact and Damage Assessments:**

– The Working Group of the Environment and Health Department of IMN, for the **Toxicological approach**, coordinated by Dr. Emilio Benfenati; – The Working Group of the Research Center in Epidemiology and Preventive Medicine of UNINS, for the **Epidemiological approach**, coordinated by Prof. Giovanni Veronesi;



– For Legislative and Regulatory aspects, the Working Group of the **ENVIRONMENT Area of SLS**, for the study of Environmental and Health Law in all its dimensions, coordinated by Prof. Lawyer Leonardo Salvemini.



<sup>1</sup> Regulated by the Technical-Scientific Agreement between IMN and #Ecologja (Dec 2022), by Article 4 of the network contract (Oct 2022), and by the complementary Framework Agreement with the Department of Medicine and Surgery of UNINS (Feb 2026).

# Etica & Vision

## The Foundational Ethical Concept and the Vision

The companies participating in the network contract adopt strategies with **mutualistic inter-company purposes**. With a philanthropic spirit, inspired by the unique history of the moral institution known as the “Istituto Mario Negri”, and sharing its ethical code and moral principle of operating **non-profit**, in particular by **not subordinating research and the dissemination of knowledge to any ideological, political, or religious belief**, and ultimately by prioritizing **health interests over commercial interests**, the members of #ecologja establish a **Non-Profit Network**, with a Network Contract endowed with Legal Personality.

They envision working to the best of their expertise for a **more sustainable world**, more respectful of natural balances — in other words, with a vision of a world **at peace with the environment**.

*...imagine... .... Imagine all the people Livin' life in peace*

immagina tutte le persone che vivono la vita in pace....



*... Imagine all the people Sharing all the world*

immagina che tutte le persone condividano tutto il mondo ...

*... You may say I'm a dreamer*

puoi dire che sono un sognatore...

*... but I'm not the only one*

ma non sono il solo...

*... I hope someday you'll join us*

io spero che un giorno ti unirai a noi...

*... and the world will live as one*

e il mondo vivrà come tutt'uno...

1971

*John Lennon*

*l'immagine e la visione*

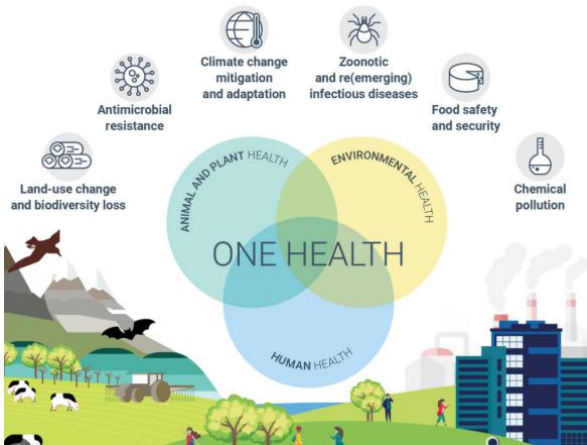
The logo encloses and synthesizes in the "graphic symbol" the **balance** of the essential elements of Life on our planet: **water, air and soil** that merge in the **DNA** giving rise to **life on earth**; where the **#** symbol called Hashtag, is used to mark the **keyword #Ecologja** (home studio), all linked by a **"fil rouge"** that reinforces the environmental balance with the sense of **justice** (the scales) necessary to open up to the **hope of change** (the rainbow), to finally reach the

*...vision...*

*a world at peace with the environment # *



# From the Gaia Hypothesis to the OneEarth.OneHealth Concept



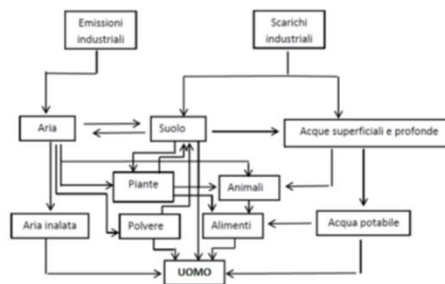
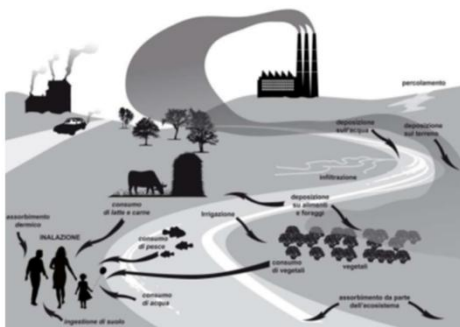
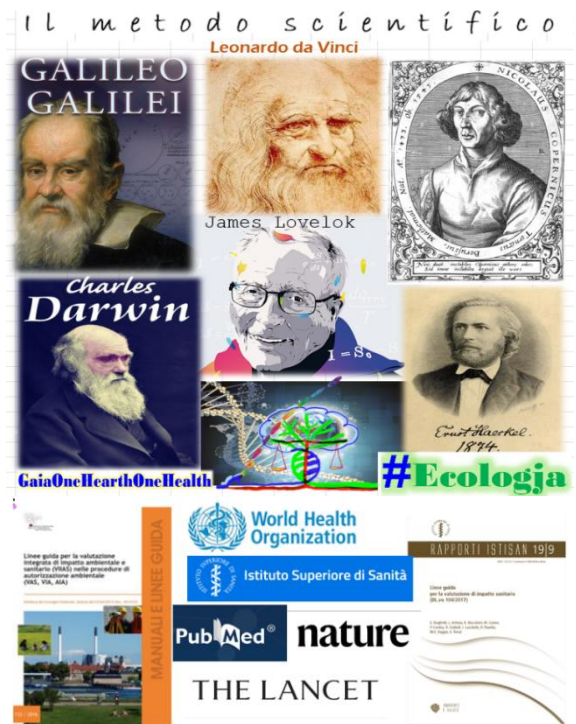
The Gaia hypothesis and the One Health concept as two integrated visions of the relationship between life and the environment

The Gaia hypothesis, formulated by James Lovelock and developed with Lynn Margulis, describes Earth as a complex, self-regulating system in which living organisms interact with inorganic components to maintain conditions favorable to life. This planetary homeostasis results from feedback processes within the biota, and evolution concerns the entire Earth system — not organisms and the environment separately.

The One Health concept adopts this systemic vision and applies it to public health, recognizing the interdependence between human health, ecosystem health, and the sustainability of production systems. In a context marked by globalization and climate change, an integrated and multidisciplinary approach becomes necessary, based on the model “one Planet, one Health.”

The Scientific Method in Ecology is identified as the essential tool for understanding and managing the relationships between living beings and the environment, with the aim of guiding effective policies and actions for the prevention and protection of health and the environment through Applied Research on the Chemical, Physical, and Biological Monitoring of the Environment, concerning both:

- the quality of biotic and abiotic matrices, and
  - the quality of emissive and immissive sources,
- thus enabling the most objective Environmental and Health Impact Assessments, scientifically supported by national and international institutions and authoritative publications.



Example of exposure pathways for the human population for certain environmental impacts determined by production activities and the connections-interactions between the various environmental matrices and human exposure (ISTISAN 19/9)



Studio Legale  
Salvemini

## Legislative references of “Environmental Law” <sup>2</sup>

The issue of environmental protection and its related topics has gained increasing relevance and centrality both in the Italian legal system and at supranational and global levels. It is therefore today, more than ever, a subject of great interest for public law studies.

Environmental law is characterized by the presence of different types of legal acts which, while responding to the technical needs of the field, also excessively enrich the framework of legal sources, often generating conflicts between norms. In this context, criteria have been developed to resolve such conflicts, based on the need to identify shared principles.

Environmental regulations are built upon several essential principles, such as:

– sustainable development – environmental contribution progression – DNSH – Do No Significant Harm – prevention – precaution – “the polluter pays” – non-regression of environmental protection

This gave rise to **international environmental law**, or more simply **Environmental Law**: a set of principles, rules, and norms aimed at protecting ecosystems and their various forms of life, regulating their interactions and the balanced use of natural resources.

Starting from the 1970s, several fundamental principles were introduced, later incorporated into the Maastricht and Amsterdam Treaties, and ultimately included in the **Charter of Fundamental Rights of the European Union (2000)**, particularly:

– quality of life – sustainable development – prevention – precaution – DNSH – polluter-pays principle – non-regression

These principles were also incorporated into Italian legislation through **Legislative Decree 152/2006**, known as the **Environmental Code**, a consolidated text reorganizing environmental matters based on both national and EU legal sources and jurisprudence.

Finally, it is important to note that in 2022 amendments were made to **Articles 9 and 41 of the Italian Constitution**, incorporating the principles of environmental protection and sustainable development, also in the interest of “**future generations**” — a phrase used for the first time in the Constitution — reinforcing environmental sustainability as a commitment for the future.



# STUDIO LEGALE SALVEMINI

IL DIRITTO AL SERVIZIO DELLA QUALITÀ DELLA VITA

<sup>2</sup> Leonardo Salvemini – “The Principles of Environmental Law” (Dec. 2019); “The New Environmental Law between Recent Principles and Creative Jurisprudence” (Sept. 2022)



# Environmental Healthiness – One Health

“Environmental healthiness” is a concept of global health based on the **One Health** approach, which defines the integration of the various factors that interact within the ecosystem in which we live and that collectively contribute to creating an environment suitable for the development of human, plant, and animal species. The holistic **One Health** vision is a health model based on the integration of different disciplines. It is founded on the recognition that **human health, animal health, and ecosystem health are inseparably interconnected**.

It is officially recognized by the Italian Ministry of Health, by the European Commission, and by all major international organizations as a relevant strategy in all sectors that benefit from collaboration among different disciplines (physicians, veterinarians, environmental scientists, economists, sociologists, etc.).

**One Health** is an ideal approach to achieving global health because it addresses the needs of the most vulnerable populations based on the intimate relationship between their health, the health of their animals, and the environment in which they live.

Considering the wide range of determinants emerging from this relationship, many disciplines must be taken into account, such as:

– Toxicology of chemical substances – Noise – Vibrations – Electromagnetism – Biodiversity – Nutrition and others more closely related to the **psycho-physical sphere**, such as:

– Stress – Odor – Light exposure – Landscape well-being

These aspects also contribute fully to achieving the final objective of a comprehensive assessment of **environmental healthiness**, thus sharing the World Health Organization (WHO) definition of health as: “a state of complete physical, mental, and social well-being and not merely the absence of disease.”<sup>3</sup>



## Purpose, Principles, and Design Criteria

Consequently, from a project-development perspective, within the framework of new principles and concepts (eco-sustainable development<sup>4</sup>, prevention<sup>5</sup>, precaution<sup>6</sup>), it becomes necessary to apply a strategy that integrates both established and emerging disciplines. This strategy must express and objectify, through a series of indices, the evaluation of the **potential risk to receptors** resulting from exposure to mixtures of pollutants, now ubiquitously present in the ecosystem in which we live.

The goal is to **understand, analyze, and quantify** the correlations between humans and the environment, which may primarily determine effects on human health — the so-called “**Environmental Diseases.**”

It is our view (shared with the Environment and Health Department of the ISS) that **Integrated Environmental and Health Impact Assessments (VIA, VIS, VDS)** must be carried out using both:

– computational modeling approaches, and – deterministic experimental approaches.

The **computational modeling approach** makes it possible to evaluate, contextualize, disaggregate, dimension, localize, and predict the impact of pollutants from multiple sources, estimating their concentrations, potential interactions, and effects, which can be summarized into classifications of quality and risk for exposed receptors.

The **deterministic experimental approach** provides objective verification of the computational estimates, assesses damage in exposed biological receptors, and—through periodic monitoring—allows validation of hypothesized cause-effect correlations.

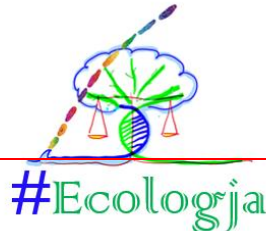


<sup>3</sup> [Organizzazione Mondiale Sanità \(salute.gov.it\)](http://salute.gov.it)

<sup>4</sup> [Herman Daly; Joannesburg Declaration 2004](#)

<sup>5</sup> [Art.304 of the Environmental Code](#)

<sup>6</sup> [Art.3 ter D.L.gs. n. 152/2006](#)



## Strategy and operational methodology

The companies participating in the network contract adopt strategies with inter-company mutualistic purposes forming multidisciplinary Working Groups and through Applied Research to Chemical, Physical and Biological Monitoring, related to both to the Quality of the Emission and Immissive Sources, both to the Quality of Biotic and Abiotic receptors of the Environment. solve the problems of the many issues raised by the Environmental Impact Assessments – EIA/VIA Health Impact Assessments – HIA/VIS Health Damage Assessments -HIDA/VDS and the consequent Environmental and Health Monitoring Plans – EHMP/PMAS

# The strategy... the network .. into network...

#Ecologja a node of the scientific network



From what has been described so far, it is evident how extensive the research activities to be undertaken are in order to try to give a complete answer to the many questions brought to the attention of the scientific community.

This evidence confronts us with the need and usefulness of expanding the network of collaborations with institutions that have synergistic and complementary activities, which share ethics, objectives and scientific method, such as public bodies, generally UNIVERSITIES, and private bodies such as the Italian Institute for Planetary Health – IIPH – which aims to preserve

Planetary Health, i.e. the health of human civilization and the natural systems on which it depends, with research activities divided into 5 areas particularly focused on the nutrition-health interaction, a central issue also in Health Impact Assessments - V.I.S.



**Italian Institute for Planetary Health o IIPH** è un Istituto dal respiro internazionale che ha lo scopo di salvaguardare la salute dell'uomo mantenendo in buona salute anche il nostro Pianeta.  
 IIPH è un consorzio nato nel 2019 dalla collaborazione tra l'Istituto di Ricerche Farmacologiche Mario Negri IRCCS e l'Università Cattolica del Sacro Cuore, con la partecipazione di VIHTALI srl, spin-off di quest'ultima

## By sharing the criteria set out in the charter of values and in the IMN Code of Ethics for Inter-company collaborations




For twenty years, IMN's Department of Research, Environment and Health, in the field of Industrial and Environmental Hygiene Assessments, has operated by internalizing all the scientific activities that could guarantee compliance with the values of independence and fidelity to the scientific method.

At the same time, in this same period of time (2000÷2020), the great technological development and the adoption of accreditation procedures have led to a general improvement in the scientific services also offered by commercial companies, *guaranteeing the* quality of the data collected<sup>7</sup> through ACCREDIA.

This objective situation has led the IMN to the reorganization-efficiency of its operational structures, including the possibility of a **coordinated technical-scientific collaboration** between INTER-company Working Groups, on the condition of sharing the values and ethics of the IRFMN, in particular, not to subordinate research and the dissemination of knowledge to the filter of any ideological, political and religious beliefs, and ultimately, privileging the interests of health over commercial interests.

## Multidisciplinary and inter-company working group

In order to address the numerous issues of EIA (Environmental Impact Assessments) and VIS (Health Impact Assessments) or Health Damage Assessments (VDS) and the consequent PMAS (Environmental and Health Monitoring Plan), it is necessary to form a multidisciplinary working group including all the bodies (public and private) that are involved in various ways (ARPA, ATS, ISS, UNIVERITA'....) of which IMN, *by choice, is primarily concerned with quantitatively dimensioning the health value of "Environmental Diseases" due to exposure to mixtures of chemical-physical pollutants, as a contributing cause on the state of public health.* Following this statement, as part of the collaboration between inter-company working groups, the IMN Institute, in December 2022, signed an AGREEMENT FOR TECHNICAL-SCIENTIFIC COLLABORATION with the **Non-Profit Business Network #Ecologja c.r.s.g.**<sup>8</sup>, as well as the Research Center in Epidemiology and Preventive Medicine (EPIMED) of the Department of Medicine and Surgery of UNINSUBRIA, signed a similar framework agreement in February 2026; agreements that allow us **to coordinate a multidisciplinary working group (GdL.VIIAS.IMN.UNINS#ecologja)** open to useful and necessary local institutional collaborations, overall *able to exhaustively carry out an experimental applied research of excellence.*

<sup>7</sup> ACCREDIA is a non-profit association and is the only accreditation body in Italy.<sup>1</sup> 

<sup>8</sup> (Network Contract with Legal Subjectivity, signed by: SUEZ. ARIANET -EUROFINS. ENVIRONLAB);



## Brief description of the criteria and areas of intervention of the Experimental Applied Research with Environmental and Health Monitoring Plan

All that has been illustrated so far can be confirmed with experimental *applied research* in **Environmental and Health Monitoring Plans (PMAS)** as required by various administrative authorization procedures (EIA, AIA, AUA).

Below we illustrate the numerous issues that are generally and/or can be addressed in PMAS with *Chemical-Physical-Biological Monitoring and related Toxicological-Epidemiological Risk Assessments*.

**Chemical-physical toxicological monitoring** for the determination of emissive-immissive sources and their environmental impact:

**Emissions into the atmosphere** from production plants;

**Ambient air quality** in the light of the application of *pollutant dispersion modelling in the air* involved in the emission diffusion/dispersion mechanisms;

Identification of **ambient air pollution indicators** that take into account not only the standardized parameters but also organic and inorganic micropollutants with known toxicological and carcinogenicity characteristics and sequential Evaluation with Toxicological approach (Risk Assessment);

**Quality of water bodies** *receiving* discharges; including emerging non-regulated pollutants;

**Quality of the soils** involved in *the deposition of pollutants* from industrial activities;

**Quality of the agricultural soils** involved with sludge spreading techniques used as fertilizer soil improvers;

**Olfactory harassment;** characterization of gaseous emissions/immissions into the atmosphere (Olfactometric, chemical, toxicological, modeling);

**Biological Ecotoxicological Monitoring** for the determination of the health status of animal and plant organisms at different trophic levels exposed over time to environmental impact; organisms chosen from the following biological models, internationally standardized and widely used for toxicity and environmental impact studies, can be used:

**Plants:** *Lepidium sativum* (watercress) and *Sorghum saccharatum* (sorghum).

**Soil worms:** *Eisenia andrei*. Protozoa: *Dictyostelium discoideum*.

**Crustaceans:** *Daphnia magna*. **Unicellular green algae:** *Pseudokirchneriella sub capitata*.

**Fish:** Zebrafish (*Danio rerio*); **Bacteria:** *Vibrio fischeri*. **Sediment worms and pore water:** *Celegans*.

**Insects:** Bee (*apis mellifera*)

**Climate and Noise Impact Assessment:** Sound Source Analysis pertaining to the plant, including induced vehicular traffic.

Identification of the sensitive receptors potentially most exposed to emissions.

Analysis of the municipal acoustic zoning plan and identification of the acoustic class to which the sources and receptors belong. Evaluation of the acoustic climate before the construction and the acoustic climate after the construction with analysis of the compatibility of the latter with the acoustic class to which it belongs with reference to compliance with the legal limits in force (absolute limit of immission and emission, differential limit of immission).

Stima degli effetti sulla salute della popolazione in termini di incidenza sulle patologie sensibili all'esposizione al rumore (La correlazione tra livelli di rumore e pressione arteriosa e malattia coronarica ischemica da un lato e depressione ed ansia dall'altro sono supportate da numerosi studi clinici e dall'Organizzazione Mondiale della Sanità).



## and with the elective collaboration<sup>9</sup> of the WG of the Department of Environment and Health of IMN for the Toxicological and Epidemiological approach



Health monitoring of a sample of the population chosen from among the non-exposed and those potentially exposed for the determination of the state of health with *an approach of prevention* of potential damage that can be assessed with "in vivo" biological monitoring and/or with the use of "in vitro" cellular exposure techniques (complementary method).

**Biological Monitoring.** The clinical toxicological examination, which precedes biomonitoring, must evaluate, in addition to the complete medical history of the patient, the possible sources of occupational and non-occupational exposure, their quantification, duration and extent and the potential and current health effects. The assessment of the functionality of the various systems (cardiovascular and respiratory in the first place) must be commensurate with age, gender, ethnicity, risk factors, occupation, lifestyle, nutrition, etc., and the type of exposure to which the individual is subjected. Subsequently, to ascertain the exposure, a biomonitoring action is undertaken, which is the measurement of the quantity of a chemical substance, and/or its metabolites in a biological sample of the individual. At the same time, in addition to these exposure markers, effect markers are also evaluated, which are biochemical, physiological and behavioral alterations associated with potential health effects. It is also necessary to collect data on any susceptibilities that may make the individual prone to the toxic effect of various substances, for example those with pre-existing cardiovascular and pulmonary diseases (ischemic disease and heart failure, asthma, emphysema and chronic bronchitis), diabetes, child and elderly population. The choice of biological matrices depends on the marker searched for and, although the most common are blood and urine, biomonitoring can be carried out on any matrix (**Whole blood and serum, Urine, Hair, Saliva, Breast milk, Umbilical cord blood, Breath Analysis combined with spirometry**). In addition, **the population should be monitored for both acute and chronic effects of exposure to airborne pollutants and noise, such as:** Nasal and laryngeal eye irritation, Wheezing and difficulty breathing, Coughing and chest tightness, Worsening of existing lung and heart problems, such as asthma exacerbation, Increased risk of heart attacks, Aggravation of lung and cardiovascular diseases, Decreased pulmonary and acoustic function, Increased frequency and severity of respiratory symptoms such as difficulty breathing and cough, Increased susceptibility to respiratory infections, Effects on the central nervous system such as impairments in behavior, memory and learning

**A complementary method (inVivo) is the evaluation of the damage of cell lines exposed to the pollutant matrix (generally inhalable dust). Normally exposure occurs with human cellular models of the Respiratory, Hepatic, Blood, Neuronal and Renal systems (2D and 3D models) static and dynamic.**

### Epidemiological monitoring.

**Centro ricerche in Epidemiologia e Medicina Preventiva - EPIMED**

with a definition of the population [in the geographical sense] potentially affected by the work, its essential demographic and social characteristics, the possible presence and relative identification/specification of groups that require special attention [e.g. because of their susceptibility]; identification and estimation of the expected effects of the plant on the health of the population [e.g. in terms of: *mortality, years of life expected / lost / gained, incidence / prevalence of diseases / disorders, consumption of health services* etc.], distinguishing acute effects from chronic ones, with specific reference to the different exposures of chemical origin determined by the source itself and their mode of action [continuous, repeated, peak exposures, etc.], indicating as far as possible the quantitative dimension [at least in terms of measurement scale] of the phenomenon [number of expected or additional cases];

**The specific Working Group on Epidemiology is a member of the also the WG of the Research Center in Epidemiology and Preventive Medicine (EPIMED) relating to the Department of Medicine and Surgery<sup>10</sup> of the University of Insubria (UNINS) of Varese.**



<sup>9</sup> Regulated by the Technical-Scientific Agreement between IMN and #Ecologja (Dec 2022) and by art.4 network contract (Oct.2022)

<sup>10</sup> Collaboration regulated by the framework agreement between the Department of Medicine and Surgery of the University of Insubria and the #ecologja business network, signed in February 2026.



# OneHealth

## Public Health and Environmental Assessments

*Environmental Epidemiology* (critical review of historical data and literature, cohort studies);

*Environmental and Health Monitoring Plans*

*of the Environment relating to the Quality of Abiotic (air, water, soil, noise) and Biotic (flora and fauna) matrices, of Emission Sources and Personal Exposure (relating to occupational and civil exhibition profiles);*

*Environmental Toxicology with Risk Assessments (US, EPA-EU)*

APPROACH  
COMPUTATIONAL MODELING  
in *SILICO*

APPROACH  
EXPERIMENTAL DETERMINISTIC  
*BIOTIC Matrix in VIVO in VITRO and ABIOTIC Matrix in water, air, soil*

Predictive evaluations of the concentration of pollutants in the environment derived from industrial and civil emission sources; in **AIR** also with Lagrangian particle models (Spray) at the mesoscale and local scale; in the **SOIL**, Subsoil and Groundwater (Pearl-Vulpes)

Evaluation of **contamination in receptors exposed to mixtures of organic and inorganic pollutants using chemical analyses:**

PPA, PCB, PCDD, PCDF, PFAS, PFOA, BTX, ALDEHYDES, VOCS, PESTICIDES, METALS, ASBESTOS, NITROGEN OXIDES, OZONE

Predictive assessments of the "HAZARD" toxicological characteristics of all organic chemicals (emerging pollutants) with **ReadAcross-QSAR** and modeling with **Specific software** ANTARES-CALEIDOS-CAESAR-VEGA (neural networks, fuzzy logic, genetic algorithms, classifiers, multivariate analysis, etc.)

**Assessments of potential risk and health damage with approach Toxicology**

**Environmental Quality and related Toxicological Risk for both humans and the ecosystem exposed to mixtures of organic and inorganic pollutants**

(PPA, PCB, PCDD, PCDF, PFAS, PFOA, BTX, ALDEHYDES, VOCS, PESTICIDES, METALS, ASBESTOS, NITROGEN OXIDES, OZONE)

**Qualitative and quantitative evaluation and classification with INDICES:** I.T.R.Q.A. – Merlin Expo-INTEGRA

**Assessments of potential risk and health damage with an epidemiological approach for the determination of the incidence on human diseases of exposure**

to particulate pollutants (PM10 PM2.5) gaseous (NO2) and physical (Noise)



Evaluation of **ecotoxicological damage** in receptors using **monitoring with model organisms**

**Terrestrial:** Phyto (Watercress, Sorghum, Cucumber) – Earthworm (*Eisenia andrei*) – Worm (*Celegans*)- Amoeba (*Dictyostelium*) Rodents (mouse and rat)

**Aquatic:** - Bacteria (*Vibrio fischeri*) Algae (*Pseudokirchneriella subcapitata*) - Crustaceans (*Daphnia Magna* - *Thamnocephalus platyurus*) **Atmosphere:** Bee (*apis mellifera*)

**Evaluations of toxicological effects for humans from the Personal biological monitoring**

with non-invasive techniques (blood, urine, saliva, hair, exhaled) and with the help of "omics" studies

Evaluations of the **toxic** (lethal and sublethal) and **carcinogenic** effects of pollutants on humans, using **human cell models** of the Respiratory, Hepatic, Blood, Neuronal system (2D and 3D models static and dynamic)

The working group elaborates the considerations taking into account the

VDS<sub>DLGS</sub> VIAS<sub>ISPR</sub> VIS<sub>ISS</sub>

# The experience of the VIAS WG

has **common roots** in the main activities carried out by the Working Group coordinated by the **Industrial and Environmental Hygiene Unit - Laboratory of Environmental Chemistry and Toxicology - Department of Environment and Health of the IRFMN as part of Monitoring Plans, Studies and Integrated Environmental and Health Impact Assessments.**



(1997) Industrial Hygiene Study to qualitatively determine the mass flow of combustion fumes of the MSW incineration plant managed by TERMOMECCANICA with determination of the efficiency of the purification plants after plant restructuring. (Province of VERCELLI)



(1998-2002) Industrial Hygiene Studies to determine qualitatively and quantitatively the mass flow of combustion fumes from AMSA's MSW incineration plants in via Zama e Figino in Milan and as part of the testing of lines 1 and 2, determination of the efficiency of the purification plants of the new ASM MSW waste-to-energy plant. (ASM Brescia and AMSA Milan)

(2003-2005) Environmental Impact Studies (EIAs) before and after the modernization of the MSW waste-to-energy plants ACEGAS\_APS in Trieste.

(2005-2006) Study for the evaluation of environmental healthiness in the municipality of Lomello (PV);

(2006-2007) Post-construction environmental impact study of the TME plant in Gioia Tauro (RC).

(2008) Hygienic and Sanitary Assessment (VIS) of the cocombustor project in the LUCART Paper Mills (LU);

(2007-2008) Monitoring of air quality in relation to the diffusion of organic and Inorganic, as part of the health risk assessment in the area of the site of national interest "BresciaCaffaro" – ISS-ISTITUTO SUPERIORE DELLA SANITÀ

(2008) Health and hygiene impact assessment relating to a biomass thermal power plant located in the Bevera hamlet of the Municipality of Ventimiglia (IM);

(2008) Health and Hygiene Assessment of the third line project of the ACEGAS APS MSW incinerator in Padua

(2008) Hygienic and Sanitary Assessment of the MSW incinerator project in the Municipality of Sant'Urbano (PD);

(2009-2011) Evaluation and identification of innovative methodologies for the characterization of biogas emissions from landfills (ITFM-ITRA toxicological indices of Mass Flow and Environmental Risk) TUSCANY REGION

(2010-2014) Assessment of Environmental Healthiness in the municipalities of Lomellina (PV) adhering to CLIR;

(2010-2014) Hygienic and Health Assessment of Air Quality in the municipalities of Padua and Noventa Padovana and the impact of the USW-ACEGAS-APS waste-to-energy plant

(2011) Health and Hygiene Assessment of the ECOSAVONA landfill of MSW in the province of Savona (SV);

(2011-2012) Health and Hygiene Assessment of the impact of a hospital waste incinerator (ROT) by PademoEnergia in the municipality of Paderno Dugnano (MI)

(2011-2013) Assessment of Environmental Healthiness in the Municipality of Gorla Maggiore and in 10 municipalities of lower Brianza (VA-CO-MI);

(2010-2013) Environmental monitoring and toxicological assessments for the enhancement and protection of the healthiness of Lake Garda. (Municipality of Peschiera- Garda UNO spa - Gardesana Servizi spa company - Rotary and Lions Cubs)

(2012) Preliminary Hygienic-Sanitary Assessment relating to a biomass thermal power plant located in the Municipality of Calizzano-Savona Municipality of Calizzano



(2014) Health Impact Assessment in the municipalities involved in the S.S.340 "Regina" variant project in Tremezzina (Province of Como)

(2014) Health Impact Assessment in the municipalities involved in the project of the new intermodal terminal of Milano Smistamento (Terminal AlpTransit S.r.l. \_ FSLogistica-Hupac)



(2007-2013) Study on the presence of xenobiotics in the urban wastewater cycle within the framework of the operational programme "ERDF of the Autonomous Province of Bolzano South Tyrol)

(2014-2015) Toxicological Risk Assessment from Exposure to Toxic and/or Carcinogenic Chemical Agents for Workers at the WTE Plants in Padua and Trieste (ACEGAS APS AMGA)

(2015-2016) LANDMONITORING PROJECT - Validation campaign of the diffusive model in the field with the use of tracers at the Bolzano waste-to-energy plant (ECOCENTER-BZ)

(2014) Health Impact Assessment in the municipalities involved in the project of the New Shopping Centre of Segrate (Westfield Europe ltd)

(2015-2016) Health Impact Assessment related to the EIA of a MSW and District Heating Co-incineration plant in Piacenza (TECNOBORGO spa)

(2014) Integrated Environmental and Health Impact Assessment of a Toxic Waste Incinerator in Filago – BG (ECOLOMBARDIA4)

(2016) Integrated Environmental and Health Impact Assessment of a PV Turbid Tire Gasifier (TIRE)

(2015) Assessment of the Eco-Toxicological Health Impact of excavated earth and rocks related to the Third Pass MI\_GE High Speed project. (COCIV)

(2016) Assessment of the Health and Eco-Toxicological Impact of excavated earth and rocks related to the project of the New Metro Line in Catania (CMC)

(2016) Assessment of the Health and Ecotoxicological Impact of excavated earth and rocks related to the project of New railway line in the province of Caltanissetta (Empedocle2)

Assessment of the Health and Eco-Toxicological Impact of excavated earth and rocks related to the electrified doubling project of the Palermo Centrale – Carini railway line (SIS Stable Consortium)

(2015-2017) Assessment of the Health and Eco-Toxicological Impact of excavated earth and rocks related to the project relating to the Ogliastrillo-Castelbuono railway doubling (Cefalù) TOTO spa Costruzioni Generali

(2016-2017) Integrated Environmental and Health Impact Assessment of a landfill of waste containing Asbestos in Montichiari – BS (ECOETERNIT)

(2016-2017) Integrated Environmental and Health Impact Assessment of the new special waste incinerator project by A2A Ambiente in the municipality of Corteolona-Genzone (PV)

(2015-2017) Environmental and Health Impact Assessments of human activities and of the Provincial Road in the municipality of Lomello, PV (Municipality of Lomello).

(2015-2019) CE LIFE COBRA projects and CE Horizon2020 LOWBRASYS project for the integrated assessment of the Environmental and Health Impact of an innovative braking system also with specific "green pads" developed by BREMBO in collaboration with FORD, CONTINENTAL TEVES, FEDERAL MOGUL, FLAME SPRAY, CGT ITALCEMENTI.

(2018) Applied research with Toxicological and Risk Assessment for Human Health and Evaluation of the Ecotoxicological Suitability of excavated soils and rocks with Conditioning Chemicals in a mesocosm study for the AVAC Brescia Verona railway line (CEPAV DUE).

(2019) Environmental and Health Monitoring Plan for the determination of the impact on health in the area surrounding an Industrial Waste Incineration Furnace in the province of BG. (a2a\_ECOLOMBARDIA4).

(2011-2024) industrial hygiene investigations on ducted air emissions for the search for organic and inorganic micropollutants with Long Term (a2a\_ECOLOMBARDIA4)



(2019\_2020) Examination of the Health Impact Assessment document "Variant Improvement to the Management of the Regional Tactical Landfill of Sant'Urbano" (Municipality of Sant'Urbano PD)

(2018)Health Impact Assessments of the Holcim cement plant in the province of Varese (UNINSUBRIA)

(2020-2022) "SLUDGE" (Advanced forms of sewage sludge management in an innovative Lombard Hub) LOMBARDY REGION

(2018)Health Impact Assessments of the incinerator of the municipality of Spilimbergo (PN) managed by the ECOERIDANIA group (Eco Mistral ECOERIDANIA).

(2021)Preliminary ecotoxicological study as part of the assignment of the Final Design of the Politecnico-Rebaudengo Section of Line 2 of the Turin Automatic Metro (INFRA. TO)

(2021-2024) PMAS ante operates in the context of the Integrated Environmental and Health Impact Assessments (VIIAS) relating to the project of the new waste-to-energy plant for special non-hazardous waste in Corteolona-Genzone (PV) (aza Environment)

(2022-2024) Health Impact Assessment according to the guidelines proposed by R. L. 2016, and ISPRA.2015, preliminary and preparatory to the V.I.S. according to ISS 2019 guidelines (MONTELLO spa)



Based on these *experiences*,  
*work and human resources*,  
 with the aim of providing a  
*Excellence service*

in the integration between VIA, VIS, VDS and  
 PMAS,

reserving to the **WG.VIS. IMN** the *health approach*  
 and reserving the *environmental approach* to the  
**WG.VIA#ecologja**

the **WG VIIAS** was formed. **IMN#ecologja**

to carry out **Integrated Environmental and Health Impact Assessments**  
 formalized by a *five-year IMN#ecologja* agreement signed in December 2022.

Since February 2026, following the signing of a similar **UNINS#ecologja** framework agreement with the  
 Department of Medicine and Surgery of the University of Insubria, the

**GdL.VIIAS. IMN.UNINS#ecologja**

MILAN March 2026



## Company references



**Studio Legale  
Salvemini**

In Piazza Bertarelli, 1, 20122 Milano MI, the Registered Office is located of the #Ecologja Network; The ENVIRONMENT Area Practice is the reference for the Study of Environmental and Health Law in all its aspects.  
Reference: [Leonardo.Salvemini@studiolegalesalvemini.it](mailto:Leonardo.Salvemini@studiolegalesalvemini.it) \_ [Leonardo.Salvemini@ecologja.com](mailto:Leonardo.Salvemini@ecologja.com)

In Via Benigno Crespi, 57, 20159 Milano MI, the operational headquarters are located of ARIANET, which is currently part of the SUEZ group. The field of choice is the modelling assessment of the environmental impact of works and discharges integrated monitoring and forecasting of air quality, in the design of interventions and rehabilitation plans on an urban and basin scale.  
Reference: [G.Calori@aria-net.it](mailto:G.Calori@aria-net.it) \_ [Giuseppe.Calori@ecologja.com](mailto:Giuseppe.Calori@ecologja.com)



In Via Don Bosco, 3, 27014 Corteolona and Genzone PV, the operational headquarters are located EUROFINS-ENVIRONLAB, operates within a certified quality system "ACCREDIA" in the field of environmental monitoring with chemical and microbiological analysis services for all industrial and manufacturing sectors, and related consultancy for safety in the workplace.  
Reference: [SimoneCaimmi@environ-lab.it](mailto:SimoneCaimmi@environ-lab.it) \_ [Simone.Caimmi@ecologja.com](mailto:Simone.Caimmi@ecologja.com)



**Environ-Lab**

## Organizational references

In Via Mario Blacks 2, 20156 Milan, c/o Dip.AeS of IMN, and In Via Monte Generoso 71, 21100 Varese, c/o UNINS EPIMED, is located the Coordination Office of the Working Group the WG of the #Ecologja Network & the WG of the Dept.ric.AeS and EPIMED, deal with Integrated Environmental and Health Impact Assessments



**GdL.VIIAS. IMN.UNINS#Ecologja**

Reference#ecologja: [Marco.Lodi@ecologja.com](mailto:Marco.Lodi@ecologja.com) cell.3462313859  
ReferenceDipAmbienteSaluteIMN: [Emilio.Benfenati@marionegri.it](mailto:Emilio.Benfenati@marionegri.it)  
ReferenteEPIMED: [Giovanni.Veronesi@uninsubria.it](mailto:Giovanni.Veronesi@uninsubria.it)

in **ROME**, the Coordination of the **WG.VIIAS#Ecologja** is by the Senior Advisor of Environmental and Health Biology [Dr. Eleonora Beccaloni](mailto:Eleonora.Beccaloni@ecologja.com)  
Reference#ecologja: [Eleonora.Beccaloni@ecologja.com](mailto:Eleonora.Beccaloni@ecologja.com) cell.3355358946





## Our members



ARIANET is a consulting company operating in the environmental field founded at the end of the year 2000 by a group of experts in atmospheric modeling, coming from research centers and the world of freelancers. The main aim of ARIANET is to contribute to the improvement of the **understanding of the atmospheric environment**

through the **numerical simulation** at different scales of meteorology, dispersion and transformation of airborne pollutants. **The field of choice is the support to public bodies and companies in the impact assessment of works and industrial discharges, in the integrated monitoring and forecasting of air quality, in the design of interventions and remediation plans** on an urban and basin scale. The thematic and IT skills of ARIANET's staff allow us to respond perfectly to all aspects of complex projects and to provide turnkey systems to meet the different needs of our customers. <https://www.aria-net.it/it>



Together with [ARIA Technologies](#) and [Troposphere](#), ARIANET is currently part of the **SUEZ** Group, integrating its line of Air & Climate solutions. ARIANET's digital solutions and know-how thus complement SUEZ's portfolio of existing solutions for air monitoring and treatment and are offered worldwide.

As a global leader in water and waste management, we have been operating around the world for more than 160 years. We provide essential services to protect assets and improve the quality of life wherever we operate. With operations in 40 countries and 40,000 employees, we enable our customers, whether they are local authorities or industrial groups, to create value throughout the entire life cycle of their goods and services and to drive their ecological transition together with their end users. <https://www.suez.com>



Environ-Lab

**Environ-Lab** was founded in 2015 as a young and dynamic company but with professionals with more than twenty years of experience. Over the last few years of operation, the laboratory has become more and more structured to have more than 80 employees and to

introduce fundamental figures who boast more than 20 years of experience in the sector. **Having become part of the large Eurofins group**, today it is a young and dynamic company, able to offer **chemical and microbiological analysis services for all industrial and manufacturing sectors**, as well as to offer advice and support for everything related to **safety in the workplace**. Thanks to its dynamism and flexibility, it is also able to carry out specialized services for public and private entities. <https://www.eurofins.it/environmental-analysis-environ-lab>



**Eurofins Scientific, through its subsidiaries**, is a world leader in food, environmental, pharmaceutical and cosmetic product testing, forensics, advanced materials sciences and contract research services for agrosocieties. With more than 65,000 employees in a network of independent companies in 60 countries and more than 950 laboratories, Eurofins offers a portfolio of more than 200,000 analytical methods for assessing the safety, identity, composition, authenticity, origin and purity of biological substances and products, as well as for innovative clinical diagnostics. The goal of Eurofins companies is to provide their clients with high-quality services, accurate results on time, and expert advice from their highly qualified staff.

<https://www.eurofins.com>





## Our partners of choice



The **Department of Environment and Health Research** of the Mario Blacks Institute of Pharmacological Research, **deals with** identifying and preventing the negative effect of environmental factors on health. In particular, he is dedicated to identifying **the exposure of the population to chemicals and assessing their risk using in silico and in vitro toxicity studies**, analytical techniques of mass spectrometry and epidemiology. The effects of the presence of emerging contaminants, in particular drugs, in the environment are evaluated and urban wastewater analysis is used as a method of

assessing substance use in the population (drugs of abuse, drugs) and exposure to environmental and food contaminants. **The department is confirmed to be at the forefront in the development of innovative methods for the evaluation of the effects of substances through approaches that do not require the use of animal experiments.** He has developed software that helps in the assessment of adverse effects and environmental concerns. This software, called VEGA, is available free of charge from the [www.vegahub.eu](http://www.vegahub.eu) website, and has been used by the European Chemicals Agency (ECHA) to evaluate registered substances, in order to assign them to possible alert lists. The software is also mentioned in European Food Safety Authority (EFSA) guidelines, and is present in the chemical information system of the Association of European Chemical Industries (CEFIC). **It signed a technical-scientific agreement with #ecologja in December 2022, which regulates mutual collaboration in the field of EIA, VIS and VDS** <https://www.marionegri.it/dipartimenti/ambiente-e-salute>



Studio Legale  
Salvemini

**Salvemini Law Firm** was founded in Milan in 1988. Over 30 years dedicated to **law as a privileged way to protect the quality of life and the environment.** We like to call ourselves "tailor-made lawyers" who, with the needle and thread made available by law, sew tailor-made solutions with precision, creativity and intuition, transforming every defensive strategy into a masterpiece of justice,

concord, legality. The Firm's flagships are Administrative Law and Environmental Law with particular attention to: reclamation, waste, quarries, water system, parks and protected areas, energy. A further area of excellence for the Firm is Criminal Law: environmental crimes, crimes against the Public Administration, accounting, relating to safety at work and medical liability, liability pursuant to Legislative Decree 231/2001. <https://www.studiolegalesalvemini.it/>



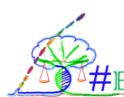
UNIVERSITÀ DEGLI STUDI  
DELL'INSUBRIA

Centro ricerche in Epidemiologia e Medicina  
Preventiva - EPIMED

Center

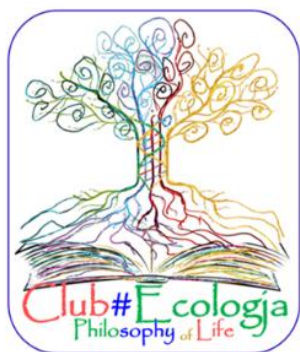
**The Research Center in Epidemiology and Preventive Medicine (EPIMED)** was established on November 22, 2010 and belongs to the Department of Medicine and Surgery. The proposer and first director of the Center was Professor Marco M Ferrario. The current director of the Center is Professor Giovanni Veronesi. The primary purpose of the is to promote **applied research in the biomedical field and the development of epidemiological and statistical methodology applied to biological phenomena and pathologies of significant social interest.** The specific fields of research are those developed by the personnel who adhere to them. By nature and vocation, it is an inter-disciplinary center, able to activate national and international scientific collaborations on the characterizing issues and applications of research and statistical methodology in different clinical and public health contexts.

It signed a framework agreement with #ecologja in February 2026, which regulates mutual cooperation within the VIS and VDS <https://www.uninsubria.it/ricerca/strutture-la-ricerca/centri-di-ricerca/centro-ricerche-epidemiologia-e-medicina-preventiva>





**Air Factory Srl** Società Benefit, (innovative startup), provides Proficiency Tests for environmental monitoring (with a specific focus on air quality), organizes training for technicians on emissions into the atmosphere and provides specialist advice on environmental authorizations (AIA, AUA). It offers technical support for participation in European funding (Horizon Europe, POR FESR), including project drafting and analytical reports. It signed a technical-scientific agreement with #ecologia in January 2026, which regulates mutual collaboration in the field of Industrial and Environmental Hygiene. <https://airfactoryconsulting.com/>



The **Club#Ecologia** is a non-profit association by choice of the founding members, **free people and freelancers** who have decided to invest their time in **informing and training the new generations on the environment in which they live and will live**. The project consists in the **dissemination of an Ecological Life Philosophy** to the population, in the cultural and educational sector, but in particular in primary schools, hoping that children can grow in the awareness of being part of the nature that surrounds them, becoming Men and Women determined to respect and defend our home, Planet Earth, embracing a less consumerist **philosophy of life**, more sustainable, "**at peace with the environment**", that is: ecological.



## The management of #ecologia



**Leonardo Salvemini**, president of #ecologia, member of the management committee as a lawyer with qualification to practice before the Court of Cassation and the Higher Courts. **Founder in 1988 of the Salvemini Law Firm**, he has gained extensive experience in the **Administrative and Environmental** fields, together with



an important **consultancy activity in the public sector**, in particular as **Vice-President of the Interministerial Commission** for the revision of **the Environmental Code**; **Legal Advisor of the Bicameral Commission of Inquiry** on illegal activities related to the waste cycle and other environmental and agri-food offences (**eco-crimes and eco-mafias**); **Advisor to the Ministry of the Environment and Energy Security (MASE)**; **Representative of the Ministry of the Environment and Energy Security, as a legal expert, in the National Coordination Group for the Bioeconomy** established at the Presidency of the Council of Ministers; **Representative of the Ministry of the Environment and Energy Security in the Board of Statutory Auditors of CONOU – National Consortium for the Management, Collection and Treatment of Used Mineral Oils**; **Member of the National Commission for the public debate on public contracts** and interventions financed in whole or in part with **PNRR and PNC resources** at the **Ministry of Infrastructure and Transport**; **President of the Legislative Committee of the Lombardy Region**; former Member of the "**Benessere Italia**" steering committee chaired by the President of the Council of Ministers; **Adjunct Professor of Environmental Law** at the State University of Milan, former **Adjunct Professor of Administrative Law**, as well as in the field of protection of cultural heritage and safety at work at the main Italian universities. Since 2015 he has been a Member of the Steering Committee of the **SHuS Coordinated Research Center – Sustainability and Human Security** at the University of Milan – La Statale.





**Simone Caimmi**, Vice President of #ecologja, member of the management committee as **Chief Executive Officer of Eurofins Environ-lab s.r.l.** Consultant in the chemical, physical, biological and environmental fields, including safety and environmental matters; for twenty years sales representative for LabAnalysis, then co-founder and president of the board of directors of ENVIRON. LAB s.r.l.



Environ-Lab



**Giuseppe Calori**, member of the management committee of #ecologja as **Deputy Director of ARIANET s.r.l. (SUEZ group)**, is an electronic engineer and PhD in Automation, obtained at the Politecnico di Milano. He is co-founder of ARIANET, with 30 years of experience in the development and application of models and systems for air quality management, with particular reference to transboundary pollution, regional, urban and industrial contexts, estimation of source contributions, scenario analysis to support planning, forecasting systems. He has carried out research at Politecnico di Milano, IIASA (International Institute for Applied System Analysis, Laxenburg, Vienna), and CGRER (Center for Global and Regional Environmental Research, Univ. of Iowa) and contributes to European working groups related to air quality. He coordinates and contributes to application studies for public bodies and private entities, in Italy and other countries.



suez



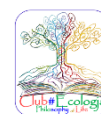
**Marco Lodi**, Graduate in Industrial Chemistry, co-founder and president of a cooperative company (ECOLAB s.c.r.l.) where he acquired the skills of Industrial Hygiene. Later he founded a limited liability company (AMBIO s.r.l.), where he acquired the skills of Environmental Hygiene. For twenty years he was Head of the Industrial and Environmental Hygiene Unit of the Laboratory of Chemistry and Toxicology of the Environment, Department of Environment and Health of the Institute of Pharmacological Research "Mario Negri". For thirty years he has been a member of AIDII and has participated in various technical and scientific commissions, in particular UNI and UNICHIM for the development of analytical methodologies. For fifteen years he was a teacher of Industrial and Environmental Hygiene in the School of Professional Qualification recognized by the Lombardy Region for Specialists in the Biological and Medical Field (IMN).



Since 2023 he has been general manager of the NonProfit Business Network #Ecologja crsg and as Senior Advisor of Industrial Hygiene and Environmental Toxicology he is the contact person for the GdL.VIIAS.IMN.UNINS#Ecologja.



Since 2025 he has been president of the Club#ecologja, an association of free people for the dissemination of a less consumerist, more sustainable philosophy of life, "in Peace with the Environment", that is: ecological.



**Riccardo Sclavi**, Chartered Accountant and Statutory Auditor with consolidated experience in management planning and control, corporate finance and consultancy to SMEs. Graduated in Business Administration from Bocconi University in Milan, he has been a member of the Order of Chartered Accountants and Accounting Experts of Milan since 1994 and of the Register of Statutory Auditors since 1999. After initial experiences as an officer of the Guardia di Finanza, internal auditor at MonteShell SpA, since 1997 he has been working on his own as a business consultant. He is a professor of management control at training institutions linked to the Order of Accountants, Assolombarda and Confindustria Monza and Brianza, and is the author of several publications on management control, business planning, treasury management and control information systems.

Since 2025 he has been administrative and accountant manager of #ecologja.



**#ecologia projects:** started as WG.VIIAS from 2021, a preparatory period for the formalization of the #ecologia network and continued sequentially, as part of the AGREEMENT FOR TECHNICAL-SCIENTIFIC COLLABORATION BETWEEN THE "#ECOLOGJA" BUSINESS NETWORK AND THE "MARIO BLACKS" INSTITUTE OF PHARMACOLOGICAL RESEARCH, SIGNED IN DECEMBER 2022.

1. **2022-2024 Health Impact \_Valutazione** according to the guidelines proposed by R. L. 2016, and ISPRA.2015, preliminary and preparatory to the V.I.S. according to ISS 2019 **guidelines (MONTELLOspa).**

2. **2022-2024 \_** "Elaboration of an applied research with environmental and health monitoring plan within the IRCCS theme "Environmental diseases" and in the context of the integrated environmental and health impact assessment (**Municipality of Gorla Maggiore**).

**2023 \_** Integrated Environmental and Health Impact Assessment contextualized in the EIA area by applying the Guidelines for Health Impact Assessment (VIS) of the Istituto Superiore della Sanità (ISS 2019) in the area surrounding the settlement called LANDFILL PLANT FOR NON-HAZARDOUS WASTE located in the Municipality of Sezzadio (AL) Cascina Borio (**DESMOS**).

**2023-2024\_Valutazione Integrated Environmental and Health Impact Projects** according to the VIIAS guidelines proposed to ISPRA (2015), contextualized in the EIA context by applying the Guidelines for Health Impact Assessment (VIS) of the Istituto Superiore della Sanità (ISS 2019) in the area surrounding the water & sun production plant in Vellezzo Bellini (PV) (**ACQUA & SOLE**).

**2024\_** Environmental monitoring for the determination of asbestos fibers and other Air Quality pollutants (**ECOETERNIT, TECHNOINERTS**).

**2024\_** Valutazione Integrated Environmental and Health Impact in the area surrounding the production plant of a plant for the permanent planting of hazardous waste containing asbestos, located in the locality called Caluri, site of the Municipality of Villafranca (VR) (**TECNOINERTI**).

**2024\_** Integrated Environmental and Health Impact Assessment contextualized in the EIA/SIA context by applying the criteria expressed in the Guidelines for Health Impact Assessment (VIS) of the Istituto Superiore della Sanità (ISS 2019) in the area surrounding the production plant of the new Microsoft MIL03 Data Center in Settimo Milanese (MI)"- (**JACOBS** )

**2024\_** Industrial Hygiene Assessment with performance of night investigations to determine respiratory and skin exposure levels during the experimental paving phase of bituminous conglomerate - ANAS Roma (**IMN**)

**2024\_** Applied Research in Industrial Hygiene and Health Impact, to size the toxicological risk of personnel in the production department" (**DELTApre**).

**2024-2025\_** Valutazione of Health Damage (VDS) DECREE of 24 April 2013 of the MINISTRY OF HEALTH in the area surrounding the landfill production plant for non-hazardous waste and waste containing asbestos, located in the Municipality of Montichiari (BS) during the exercise of industrial activities (2013-2025). (**ECOETERNIT**)

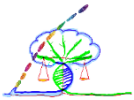
**2025\_** Examination of the project: "Construction of a plant for the recovery of metals, aggregates and valorization of waste, reusable in the field of circular economy as technical materials in the construction and landfill sector" presented by GEA S.r.l. with plant headquarters: Via Brusà n. 6, Sant'Urbano (PD). (**Municipality of Sant'Urbano PD**)

**2025\_** Applied Research Study for the characterization of the properties of chemical substances useful for the evaluation of toxicological effects of environmental relevance within the OneHealth concept (**FINCHIMICA**)

**2025\_** Indagine pilot Biomonitoring Api (**MONTELLOspa**).

**2025** Applied Research on Industrial Hygiene and Health Impact, to size the risk from exposure of workers to some chemicals (**CIVITANAVI SYSTEMS spa**).

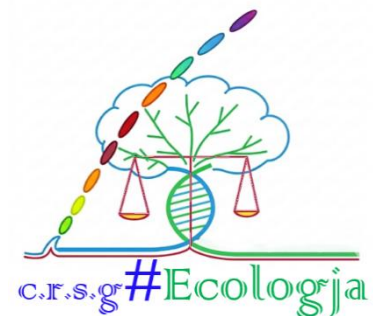




## Organisational notes

A company with a network contract with legal entity is a network of companies established pursuant to art. 3, paragraph 4-ter, of Legislative Decree 5/2009 (converted into Law 33/2009) which has chosen the form of the "**subject-network**", acquiring **autonomous legal subjectivity** with the following characteristics:

- is registered in the ordinary section of the Register of Companies,
- it has a common patrimonial fund,
- it has a common body that represents it,
- acquires autonomous legal subjectivity,
- has its own tax code and VAT number,
- carries out commercial activities,
- can conclude contracts on its own,
- it can hire staff,
- may be the owner of assets,
- it is liable for obligations with the network's capital fund.



It is not a corporation or a partnership: it is an **autonomous organizational form**, distinct from S.r.l., S.p.A., consortia, ATI, etc.

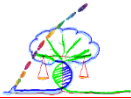
In summary and in particular, **#Ecologja** is an ARIANET company . SUEZ and EUROFINS. **EnvironLab**, founded with a network contract by choice of a non-profit with legal subjectivity, operates administratively and fiscally as a single company and **commercially represents its member companies**; assumes the role of leader in the technical-economic inter-company coordination, when it is necessary to include in the Working Group other companies / institutions, generally conventioned, for example: **DrAeS<sup>11</sup>** of Istituto Mario Blacks, **EpiMed<sup>12</sup>** of UNISUBRIA, forming the GdL.VIIAS.IMN.UNINS#ecologja. From a legal point of view, being an association of companies, it makes use of all the assurances and certifications in the possession of the individual companies that actually provide the work, for example in the Industrial and Environmental Hygiene Monitoring Plans, as regards the personnel who intervene at a production site, there will be the operators employed by Eurofins. Environlab and/or other associated/affiliated company with the relative ISO Quality Certifications, ACCREDIA Certifications and anything else useful and/or necessary for the Safety and Quality of the technical intervention. Finally, it remains to be specified that the network of #ecologja companies does not require employees because the employees of the individual member companies operate, and makes use of the advice of freelancers, forming both, "inter-company references".



<sup>11</sup> Department of Environment and Health Research of the Mario Blacks Institute of Pharmacological Research

<sup>12</sup> Research Center in Epidemiology and Preventive Medicine, Department of Medicine and Surgery of the University of Insubria





## The inter-company references of #ecologja



**Emilio Benfenati**, graduated in Chemistry at the University of Milan, is **head of the Department of Environment and Health Research of the Mario Blacks Institute**; It deals with identifying and preventing the negative effect of environmental factors on health. In particular, he is dedicated to identifying the exposure of the population to chemicals and assessing their risk using *in silico* and *in vitro* toxicity studies, analytical mass spectrometry techniques and epidemiology. He has developed a software that helps in the assessment of adverse effects and environmental interest called VEGA, it has been used by the European Chemicals Agency (ECHA). The software is also mentioned in European Food Safety Authority (EFSA) guidelines, and is present in the chemical information system of the Association of European Chemical Industries (CEFIC). **He is the contact person for the GdL.VIS.IMN #ecologja.**



**Giovanni Veronesi**, Associate Professor at the University of Insubria in the field MED/01 (medical statistics). **Director of the EPIMED Research Center – Epidemiology and Preventive Medicine, Department of Medicine and Surgery.** The main research lines are the Analysis of the social determinants of cardiovascular diseases and their mechanisms of action, using cohort studies in Italy and Europe; the role of psycho-



social, behavioral and occupational risk factors, such as physical activity and work-related stress, in the incidence of cardiovascular diseases; environmental epidemiology studies on the relationship between air pollution and human health; also in the field of Health Impact Assessment for integrated environmental authorization; the Models for estimating the absolute risk of cardiovascular disease using Italian and European population cohorts; Temporal trends of cardiovascular diseases in the Italian population and in several European populations. **He is the contact person for the WG.EPIMED.UNINS #ecologja.**



**Eleonora Beccaloni**, Graduated in Biological Sciences at the University of Rome "La Sapienza"; until 2025 Researcher at the Department of Environment and Health, Unit Exposure to Contaminants in Air, Soil and Lifestyles of the Istituto Superiore di Sanità. FF Director of the Soil and Waste Department at the Department of Environment and Related Primary Prevention (2014-2017) of the Istituto Superiore di Sanità; The experience gained in over 30 years of activity in the field of health protection, with respect to environmental pollutants, has defined a multidisciplinary approach that leads to a continuous and direct comparison with different professionals at different levels of skills. As **Senior Advisor of Environmental and Health Biology he is the contact person of the WG.VIIAS #Ecologja in ROME.**



**Gioia Gibelli**, graduated in 1978 from the Polytechnic University of Milan with a thesis on farmsteads and rural landscapes in the south-east of Milan. Since then she has always been involved in landscape. He is a freelancer in Milan, owner of Studio Gioia Gibelli. He deals with landscape planning and design, with a focus on Landscape Ecology and Landscape, public and private, as a common good. Consultant to numerous public administrations,



author of several landscape plans and projects at different scales. He has won competitions and awards, some of them international. From 1991 to 2012 he taught Landscape Ecology at the University of Genoa. Since 2018 he has been teaching "Ecological Landscape Planning" at the Politecnico di Milano, MSC Landscape Architecture LLH. Past President of Siep-lale; President of the "Casa dell'Agricoltura", an association of ideas and member of the Board of Directors of FAI (Italian Environment Fund). In October 2019 she was awarded the Earth Prize 2019 Italy, in the Landscape section. From 2015 to 2019 she was a member of the Management Board of the Lombard Park of the Ticino Valley. Member of the Culture Committee of Nhood services Italy.





**Alessandro Nanni**, graduated in Physics at the University of Milan, is a co-founder of ARIANET with over 25 years of experience in the modeling of atmospheric dispersion and in the evaluation of emissions from anthropogenic sources and transport systems. Develops TREFIC, a road traffic emissions model based on the EEA-COPERT methodology. He has coordinated or contributed to international projects on the assessment of the atmospheric impact of transport systems and scenarios. He followed and was responsible for atmospheric evaluation studies of airports, industrial sources and other transport systems using different atmospheric models and in different countries. He participates in the EC ERMES research group on mobile emission sources.



**Andrea Colombo**, graduated in Chemistry at the University of Milan, is head of the Industrial and Environmental Hygiene Unit of the Environment and Health Department of IMN, he deals with chemical analysis of biotic and abiotic materials and consequent computational toxicological assessment of the impact of chemicals on people exposed to environmental pollution (Risk Assessment) as part of the Environmental Impact Assessment (EIA) procedures Sanitary VIS- Sanitary Damage Assessments VDS.



**Simone Maiorana**, graduated in Biology at the University of Pavia, is Head of the Experimental Environmental Toxicology Unit, of the Environment and Health Department of the Institute of Pharmacological Research "Mario Blacks", deals with experimental toxicological and ecotoxicological analyses on model organisms and cellular systems to assess the potential damage deriving from the intake and exposure to mixtures of pollutants in humans and in the environment, with an integrated approach that includes the critical analysis of environmental matrices, the assessment of environmental and health risk, the framing of past and current anthropogenic pressures and the integrated reading of experimental evidence to support technical-scientific decisions. He is Coordinator of the CTS ENVIRONMENT of the Order of Biologists Lombardy



**Paolo Lopinto**, graduated in Environmental Sciences at the University of Milano-Bicocca in 2001, He has over 10 years of experience in a research and innovation organization operating in different industrial sectors. After a couple of years in a consulting company in the field of environmental and occupational safety certifications; he has always been involved in studies and in-depth studies on the environmental impact of fossil and renewable fuels; in 2024 he founded the benefit environmental consulting company AIRFACTORY; He likes the land and beekeeping. He gives his friends the honey produced by free bees and with love.



**Marco Bascapè**, graduated in Chemistry at the University of Pavia, after many years as an employee of LabAnalysis, where he perfected his skills related to analytical determinations in the field of Industrial and Environmental Hygiene; in 2015 he co-founded Environ-Lab S.r.l. and is now director of the EUROFINs Environ-Lab Laboratories in Corteolona-Genzone (PV) registered with the Order of Chemists and Physicists of Pavia.

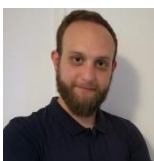


**Cristina Pozzi**, graduated in Environmental and Land Engineering at the Polytechnic University of Milan, since 2012 in ARIANET srl, carries out her activity with the qualification of Project Manager, following activities related to atmospheric impact studies related to the transport sector (roads, airports, seaports under construction or operation) and industrial, starting from the activity data of the sources through a bottom-up approach, up to the application of Gaussian dispersion models to support policies at urban or local scale and for the evaluation of future scenarios. He followed the application of three-dimensional Lagrangian particle models for odour impact studies of industrial plants and in the analysis of meteorological and air quality data using statistical techniques, as part of the monitoring activity.





**Manlio Pacitti**, graduated in Chemical Engineering at the Polytechnic University of Turin, his professional activity is carried out in the field of strategic environmental consulting for companies and public bodies, drafting and evaluation of short and medium-term industrial plans, design and specialist consultancy for waste treatment plants and environmental remediation works, Works management for environmental remediation plants and works, management consultancy in the fields of environmental legislation, management of the waste disposal and/or recovery cycle, renewable energy. President of the company DESMOS Ingegneria Ambiente ed Energia s.r.l., he has many years of experience in assisting in the construction and operational management of waste treatment and disposal plants and the production of energy from renewable sources. He has held management roles in several Italian companies operating in the field of waste treatment and disposal, including the largest hazardous waste disposal plant in Italy (Barricalla).



**Umberto Giuriato**, graduated in Physics in 2017 from the University of Turin, in 2020 he obtained a PhD in Physics at the Université Côte d'Azur in Nice. During the research activity, he develops numerical modeling skills for complex systems (in particular quantum vortices and Bose-Einstein condensates) and contributes to the implementation of particle dynamics in a parallelized 3D Fortran code for the simulation of superfluids and quantum turbulence. During his subsequent experience as a Data Scientist, he was responsible for the development of pipelines for the manipulation of large amounts of data, created monitoring dashboards and applied Machine Learning algorithms to guide business decision-making processes.



**Laura Mongiu**, graduated in Building Engineering-Architecture at the University of Pavia, she subsequently specialized as a competent technician in environmental acoustics pursuant to Law 447/1995 (Framework Law on Noise Pollution). He carries out freelance activities through his own studio, dealing with Climate, Impact and Noise Damage Assessments, with the drafting of technical reports, execution of phonometric surveys and analysis of compliance with the regulatory limits in force in the environmental and building fields.



**Sara De Podestà**, graduated with honors and immediately gained specific skills in the substantive and procedural criminal sector, both thanks to her legal practice and thanks to the internship period carried out at the Public Prosecutor's Office of Turin. in particular, to the legislation dedicated to waste management and site remediation.



**Alberto Massa Saluzzo**, agronomist. Graduated in Agricultural Sciences, since the early 90s he has been dealing with issues related to the redevelopment of cultivated land, engaged in the use of the land for environmental purposes; In this sense, it follows the management of agricultural programs linked to the enhancement of the rural environment, with particular reference to the Community strategies for the development of agri-environmental and agroforestry activities. In particular, it deepens the links between the Common Agricultural Policy and the management of agricultural activities, building programs for the enhancement of the rural system where the work of farms is aimed at the production of territorial services and where the conservation of the landscape and the increase of biodiversity are understood as agricultural production.



STUDIO GERUNDO



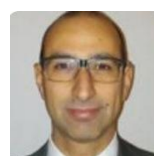
**Daniela Barbero**, graduated in Environmental and Land Planning Engineering at the Polytechnic University of Milan, where she attends, also obtained a PhD in Environmental and Infrastructure Engineering. In ARIANET he collaborates in the atmospheric impact studies of different polluting sources, such as industries, ports and airports, carried out by means of local scale atmospheric dispersion models (SPRAY). He also contributed to urban pollution assessments through the application of a microscale Lagrangian particle model (PMSS).



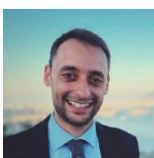
**Camillo Silibello**, graduated in Physics, from the State University of Milan. Co-founder of ARIANET, his professional and research activity, which began in the late 80s, is carried out in the field of numerical modeling and is articulated in the design, development and application of three-dimensional models for the simulation of chemical-physical processes involving pollutants in the atmosphere. Within different research projects he has contributed to the development of modules aimed at the treatment of chemical reactions in gaseous, liquid and aerosol phases, to the estimation of natural emissions. In 2006 he was appointed by the Ministry of the Environment and Protection of Land and Sea as an expert in air pollution modelling to support the preparation of the "EMEP/TFMM Particulate Matter Assessment Report". He also participated, as a national expert, in the COST Action TD1105-EuNetAir "European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability" and still participates in the activities of European groups on air quality.



**Gianni Luigi Tinarelli**, graduated in Physics at the University of Milan, is one of the co-founders of ARIANET with over 35 years of experience in the field of atmospheric dispersion, gained in the first 20 years of his career at the ENEL research centers S.p.A. La his activity mainly concerns the modeling of the transport and dispersion in the atmosphere of chemical pollutants and odorous substances. Responsible for the development of systems for modeling dispersion in the atmosphere on complex terrain on scales from micro to regional. In particular, he is one of the main developers of the SPRAY particle Lagrangian dispersion code and of the PMSS (Parallel Micro Swift Spray) suite, currently adopted both in ARIANET and by several Regional Agencies for Environmental Protection in Italy. He is responsible in ARIANET, as Project Leader, for impact studies on air quality. It also maintains collaborative relationships with national research institutions such as ENEA, CNR and INAIL.



**Luca Torreggianti**, graduated in environmental and territorial engineering at the University of Perugia, enrolled in the Order of Engineers of Teramo, is; Project and Temporary Manager for the implementation and development of management systems and business organization (Mainly Quality, Environment, Safety); Head of the Prevention and Protection Service in companies of national and international importance; director of inEVO, consulting and audit company, court-appointed technical consultant of the Court of Teramo

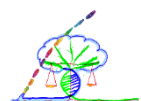


**Alessandro D'Ausilio**, graduated in Chemical Engineering at the University of Naples 'Federico II', obtained his PhD in Electromechanical Engineering at the University of Ghent, Belgium, where he worked on CFD modeling of spray combustion in turbulent regime using the Eulerian-Lagrangian approach and was also a lecturer in heat and mass transfer in the International Master in Fire Safety Engineering; he worked as Air Quality R&D engineer at the Flemish research institute VITO. In 2023, he joined the Arianet team, where he deals with air quality studies on a regional scale.





**Luca Gazzarra**, Doctor of Agronomy and Forestry (ODAF Palermo n. 1007), is a partner of a company of professionals that provides consultancy and planning to agricultural businesses, with particular focus on EU, national and regional financial instruments to support business development. He is a Management Officer at the Sicilian Region – Department of Agriculture, with responsibility for the Coordination and General Management of Programs – Agrobiodiversity and Cooperation Area, where he deals with the coordination of the RDP, the management of Technical Assistance (Measure 20) and the implementation of the RDP 2014-2022 and PSP 2023-2027 interventions. He is a member of the Regional Council of Productive Districts.



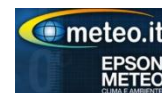
## Senior Advisor



**Marco Ferrario**, graduated in Medicine and Surgery at the University of Milan, senior professor at the University of Insubria, former full professor of Occupational Medicine, was recently appointed [chair for the three-year period 2022-24 in the Cardiology in Occupational Health section of the International Commission on Occupational Health \(ICOH\)](#); is dedicated to identifying cardiovascular risk factors, both physical and psychosocial, related to work organization; It evaluates the effectiveness of prevention of cardiovascular diseases in the workplace by indicating health policies to strengthen the changes in improving working conditions, in particular it deals with combining the research background of cardiovascular epidemiology with aspects of environmental pollution.



**Mario Giuliacci**, graduated in Physics at the University of Rome. He joined the Meteorological Service of the Italian Air Force, and from 1983 to 1990, with the rank of Colonel, he directed the Milan-Linate Meteorological Center. Since 1992 he has been in charge of the column of the time in the "Corriere della Sera" and the "Gazzetta dello Sport". From 1986 to 1993 he was a professor of [Atmospheric Physics](#) at the Degree Course in [Physics](#) of the University of Milan and then, from 1994 to 2014, in the Degree Course in [Environmental Sciences](#) at the University of Milan Bicocca. In 1992 he contributed to the foundation of the [Epson Meteo Center](#), with which he collaborated until 2010 dealing with weather forecasts for [Mediaset](#) news and for various websites. He is now editorial director at MeteoGiuliacci S.r.l. and continues to deal with weather forecasts on the YouToube.com channel and on the official MeteoGiuliacci.it website.



**Aldo Viarengo**, expert in the field of ecology/toxicology, graduated in Biological Sciences at the University of Genoa where he studied the cellular and molecular mechanisms of homeostasis and heavy metal toxicity. In that period, he also created the first "mussel watch" in Italy and, as an expert in the use of biomarkers, since 1990 he has been responsible for the reference center of the Med Pol biomonitoring program (UNEP MAP). Subsequently, in Alessandria (UPO) as full professor of Physiology and Ecology, he developed a system biology approach to study the mechanisms of action of inorganic and organic chemicals in aquatic and soil organisms. During this time, he also built expert systems for biomarker integration to track the development of stress syndrome in animals exposed to pollutants. During its activity, expert systems for the environmental risk assessment of contaminated sites have also been developed and applied to case studies. He was Head of the Environmental Toxicology Unit in the Environment and Health Department of the Mario Blacks Institute for Pharmacological Research.





## our roots

1976. The accident in SEVESO, in ITALY, was the event that marked the awareness of the importance of Health and Environmental Protection among citizens. For twenty years it led to the collaboration of various private and institutional Scientific Working Groups, among which the main one was born at the “Mario Negri” Institute of Pharmacological Research<sup>13</sup> linked to the discovery of Dioxin contamination. Since the eighties, the scientific and organizational evolution related to the experimental activities carried out by the Applied Research Working Group for Ecological Studies, in the meantime established within the Laboratory of “Environment and Health Research” of IMN, has highlighted a particularly synergistic progressive development path from 1997 to today: the activities, initially focused on Industrial Hygiene and Environmental Monitoring, have evolved towards Computational and Experimental Toxicology, to finally arrive at Integrated Environmental and Health Impact Assessments.<sup>14</sup>



2000 – Among other things, the Department of Environmental and Health Research was established, which for twenty years operated within the scope of Industrial and Environmental Hygiene Assessments, internalizing all relevant and complementary scientific activities (experimental chemical-physical monitoring, diffusion physical modeling); ensuring respect for the values of independence and rigor of the scientific method.



2013 -The IMN Institute has been recognized as an IRCCS (Scientific Institute for Research, Hospitalization and Treatment) for the pharmacology and clinical trials of neurological, rare, and environmental diseases.

2020 – Significant technological developments and the adoption of accreditation procedures have led to a general improvement in scientific services offered by private companies, including those certified by ACCREDIA. This context, in the post-COVID period, has led the IMN to reorganize and optimize its operational structures, introducing the possibility of coordinated technical and scientific collaboration between INTERCOMPANY Working Groups, provided they share the IRFMN’s values and ethical principles.



2023 – At the end of 2022, a business network was formed in Milan from the passion of a group of professionals and the philanthropic initiative of several companies, already members of inter-company working groups with IMN<sup>15</sup>, who decided to contribute to protecting our common future and the planet. The network operates within their respective areas of expertise, with particular focus on Environmental and Health Impact Assessments.



<sup>13</sup> 1961– A Scientific Foundation operating in the field of Biomedical Research was established and began operations at its Milan headquarters on February 1, 1963. The Mario Negri Institute for Pharmacological Research was directed by Professor Silvio Garattini until June 2018, and is currently directed by Professor Giuseppe Remuzzi. The fundamental purpose of the Institute’s activities is to contribute to the defense of public health and human life

<sup>14</sup> Summary by: Marco Lodi, co-founder and president of a cooperative (ECOLAB s.c.r.l.) where he acquired expertise in Industrial Hygiene. He subsequently founded a limited liability company (AMBIO s.r.l.), where he acquired expertise in Environmental Hygiene. For twenty years, he was Head of the Industrial and Environmental Hygiene Unit at the Laboratory of Environmental Chemistry and Toxicology, Department of Environment and Health, at the Mario Negri Pharmacological Research Institute, where he acquired expertise in Environmental Toxicology. Dal 2023 è general manager della Rete d'Impresa NoProfit #Ecologja crsg e come Senior Advisor d'Igiene Industriale e Tossicologia Ambientale è referente del GdL.VIIAS.IMN.UNINS#Ecologja

<sup>15</sup> Page 14-16 history of works of the GdL.IMN.INTERAZIENDALI

