WE CARE FOR THE WATER WE DRINK AND THE AIR WE BREATHE
WHO WE ARE

The Institute of Environmental Assessment and Water Research (IDAEA) is a research centre devoted to the study of human-caused environmental issues. We stand out in the organic and inorganic pollutants assessment and their impact on ecosystems, water resources, algorithms in chemometrics and inhalable particulate matter and toxic gases.

Founded in 2008, it is part of the Spanish National Research Council (CSIC) and has been distinguished with the Severo Ochoa Accreditation of Excellence (2019-2023).

REPRESENTATIVE FIGURES IN 2022

- 247 Professionals
- 8,6 M€ Total uptake
- 331 Scientific articles published
- 169 Contracts, assignments and educational agreements
- + 1,200 People approached IDAEA’s research through workshops, conferences and visits

RESEARCH LINES

Scientists’ work focuses on 3 main lines of Research & Innovation:

- Environmental and climate challenges
- Global exposure to pollution
- Circular economy

There are also 3 cross-cutting disciplines that bridge these main lines: analytical chemistry, environmental toxicology, and chemometrics and modelling.

CAPACITIES

The IDAEA scientific excellence is continuously translated into societal and economic impact by knowledge transfer & innovation actions:

- Expert advice (scientific, regulatory and policy)
- Industry (co-)developer
- Experimental design & validation
- Proof-of-concept testing
- Troubleshooting for technological challenges
- Demonstration sites (Living-Labs) offer
- Partner for European and international research projects
4 featured projects that are coordinated by IDAEA:

**RI-URBANS**

(RI-2020-Green Deal 2021-2025, 8.1M€). It provides enhanced air quality observations for policy assessment by developing synergies between Air Quality Monitoring Networks and Research Infrastructures in the atmospheric domain.

**UPWATER**

(EIT-HE-ENVIRONMENT-Zero Pollution 2022-2026, 4M€). It is focused on prevention and will test the effectiveness of different technological and non-technological measures to minimise groundwater pollution by acting at the source.

**RECOPPS**

(EIT-HE 2021-2024, 2.13M€). It aims to transition the sustainable recovery of added-value raw materials Bismuth and Antimony from the residues and by-products generated during the production of Copper, based on RECPPE fast track proven technologies (TRL 5), to a TRL 7 to validate this technological solution.

**KARST**

(EIT-ERC-SYG 2023-2029, 10M€). It will establish the next generation of coupled stochastic modelling frameworks to predict karst processes, assess the vulnerability of karst aquifers, and forecast their response to extreme events.

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<th>Featured project where IDAEA is Grant Beneficiary</th>
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**PARC**

(HE-HEALTH 2022-2023, Co-fund 400M€, IDAEA is 1 of the 2 Spanish Grant Signatories). It supports EU and national chemical risk assessment and risk management bodies with new data, knowledge, methods, networks and skills to address current, emerging and novel chemical safety challenges.

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Un catálogo de 5.700 referencias para dar las mejores soluciones en su laboratorio.
KNOWLEDGE TRANSFER & INNOVATION – INDUSTRY SOLUTIONS

IDAEA innovative solutions development:
13 new innovations (46% at >TRL5)

IDAEA is focused on KNOWLEDGE TRANSFER to improve societal, economical and industrial sectors, at local, national and international level.

IDAEA KNOWLEDGE TRANSFER IN NUMBERS

75 transfer contracts
Research & Innovation, assignments and expert advice contracts, with total income of 2,86M€

97,5% of the contracts are Technology Support, while 2,5% are Research & Innovation contracts

19 NEW GUIDES/RECOMMENDATIONS AND POLICIES

Active participation as members in more than 50 International Organisations

INDUSTRY SOLUTIONS for air, water, soil, and waste diagnosis; management and policy-making.

SUPPORTING SERVICES

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- GAS CHROMATOGRAPHY SERVICE
- ADVANCED MASS SPECTROMETRY ANALYSIS. ORBITRAP
- MASS SPECTROMETRY - SPECIAL TECHNIQUES
- ENVIRONMENTAL GEOCHEMISTRY LAB: INDUSTRIAL POLLUTION
- ATMOSPHERIC GEOCHEMISTRY LAB
- X-RAY DIFFRACTION
- ENVIRONMENTAL TOXICOGENOMICS SERVICE
- GIS GEOSPATIAL DATA MANAGEMENT AND ANALYSIS

OIL AND CHEMICAL SPILL ANALYSIS
To access the activities accredited by this Service, click on the image

- HIGH RESOLUTION MASS SPECTROMETRY
- LABORATORY OF MASS SPECTROMETRY - ORGANIC POLLUTANTS
- LABORATORY ICP-MS/AES
- ATMOSPHERIC MONITORING NETWORK
- VOLATILE ORGANIC COMPOUNDS ANALYSIS
- MERCURY ANALYSIS IN ENVIRONMENTAL SAMPLES
- VALLCEBRE RESEARCH CATCHMENT

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- FASTER – Cabinas de seguridad
- LLG – Material y equipos de laboratorio

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