OiEau
International Office for Water

30 YEARS
WORKING IN THE PUBLIC INTEREST

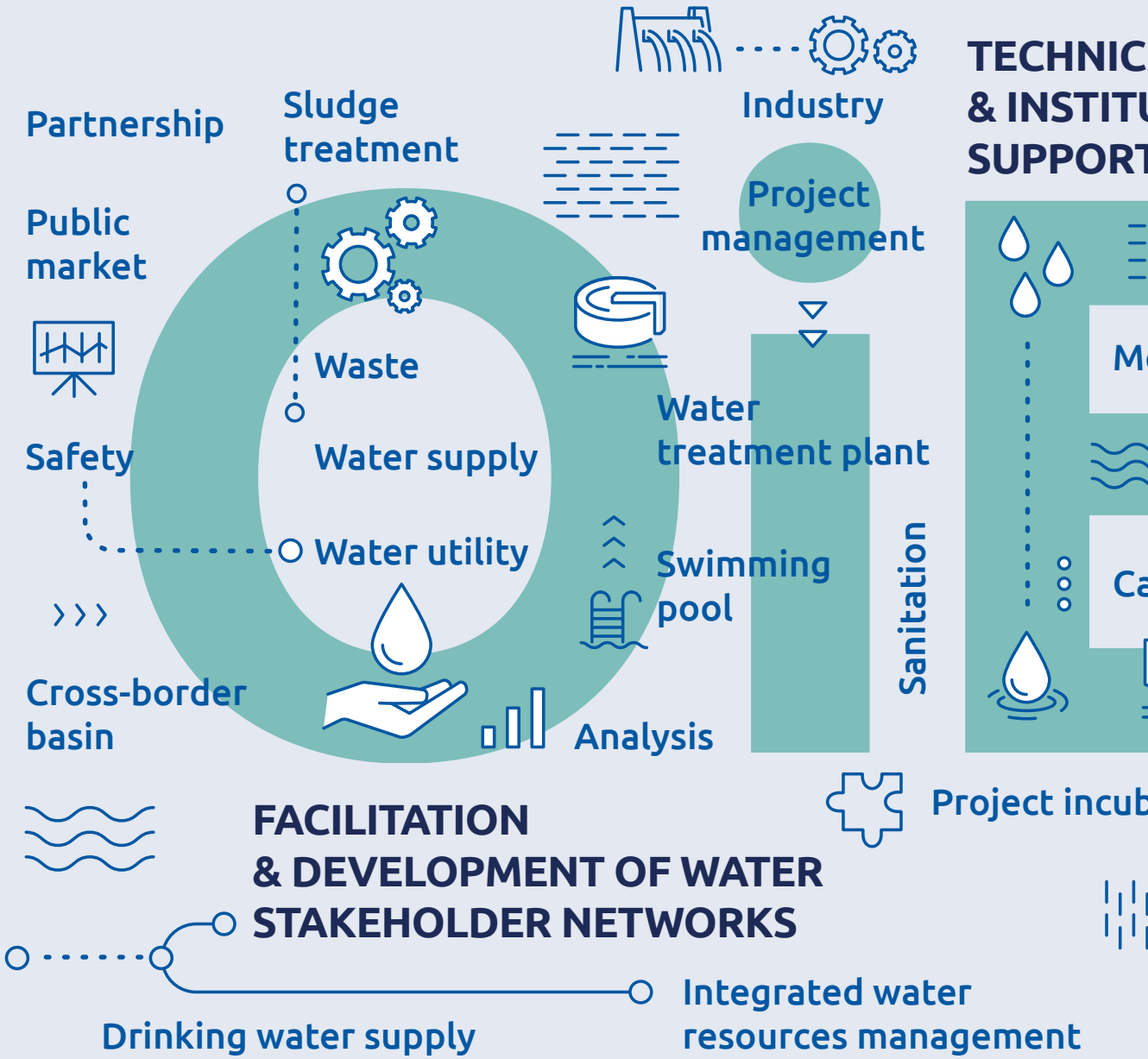
INTERNATIONAL NEWS

2020 - 2021

PROJECTS & MISSIONS

CAPACITY BUILDING FOR BETTER WATER MANAGEMENT

Our unique range of expertise serves a wide variety of partners and customers in France, Europe and around the world.

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Groundwater
KNOWLEDGE
DEVELOPMENT & WATER
INFORMATION SYSTEMS
Climate change
Circular economy
Agriculture
CONTINUOUS
TRAINING
Regulation
Drinking water
Drinking water plant
Non-collective
sanitation
Waste water

WELCOMING MESSAGE

Dear readers,

Every year since 1991, you have been informed of the latest news about our association and some of our projects, through this newsletter " OiEau International News ". On the occasion of the celebration of our 30th anniversary, in this year 2021, we have decided to change the format of this newsletter.

What is the purpose of this new format?

To give you an overview of our current projects and to better identify the expertise that we offer to our partners and clients. In order to facilitate your access to information, we offer you an entry for each of our 4 areas of expertise, and a brief presentation of each project, in a more streamlined format with a much smaller number of pages.

We hope that this formula, which echoes our new activity report, which is more detailed in its presentation of specific projects, will convince you.

Have a good discovery!

Éric TARDIEU
Director General

HOW TO READ THE PROJECT SHEETS?

NAME OF THE PROJECT

AREA OF INTERVENTION

CLIENT

THEMES

THE PROJECT IN BRIEF

THE MISSIONS OF OiEau

START-UP

Support for integrated water resources management on the Stung Sen - Phase IV

ASIA | Cambodia - Tonle Sap catchment area, Stung Sen sub-basin

Ministry of Water Resources and Meterology (MOWRAM)

- Water resources management
- Information systems

This phase in the project to support integrated water resources management is dedicated to reinforcing the participative process around the basin, to training ministry staff and to the process of summarising and updating planning on the Stung Sen.

- ✓ Continuing the integrated water resources management experiment (for the Stung Sen basin).
- ✓ Support at the nationwide level.
- ✓ Training course leaders.

June 2019

OiEau IN BRIEF

CREATION

The International Office for Water was established in 1991. It was born from the merger of 3 organizations: the Water Institute or Water Foundation (Limoges); the International Training Center for Water Resource Management (Sophia Antipolis) and the French Association for the Study of Water (Paris).

MAIN OBJECTIVE

Development of skills for better water management in France, Europe and around the world.

STATUTE

Non-profit association. Recognised of public utility, by Decree of 13 September 1991, with renewal on 16 September 2020. The modification of OiEau's statutes in 2020 in particular aimed at widening our statutory object to the fields of to the fields of aquatic environments, biodiversity, the environment and the circular economy. Previously, only the field of water was covered in Article 1.

WORKFORCE & LOCATIONS

Nearly 140 employees spread over 4 locations in France. 45,000m² of educational units in Limoges and La Souterraine (France).

FUNCTIONING OF BODIES

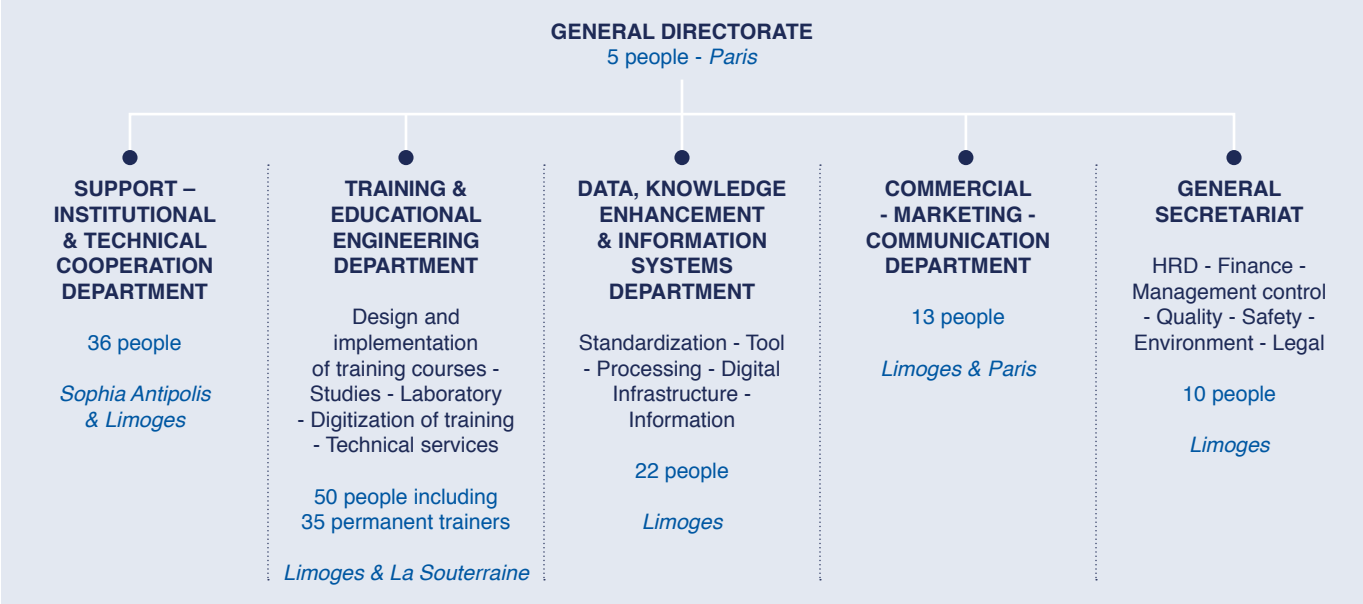
In accordance with the modification of the statutes, **the board of directors** is now composed of 24 members, instead of 28 members previously. It includes different types of structures: full members who are public entities of reference in the field of water and biodiversity (e.g. water agencies, local authorities, etc.), economic actors involved in the management or use of water resources, international organisations, associations and French public operators competent in biodiversity and water resource management. Representatives of French ministries (Foreign and European Affairs, Agriculture, Foreign Trade, Ecological Transition, Industry, Health) may also attend board meetings.

In 2020, **the Board of Directors** met on 30 June and 15 December, and convened two ordinary general meetings on the same dates.

The **President**, Mr. Pascal BERTEAUD, represents the Association in all acts of civil life.

The **Managing director**, Mr. Eric TARDIEU, was appointed by the Board of Directors on 1st July 2017.

ORGANIZATION OF THE TEAMS



OUR VALUES

OiEau is a non-profit and State-approved association. The people's general interest is at the core of its practices, regardless of the type of activity carried out or partnership established. In 2019, all employees reaffirmed the common values that drive us.

The favored values by order of importance*:

1. **General interest & Public utility.**
2. **Independence & Neutrality from private interests.**
3. **Innovation & Performance.**
4. **Pride in implementing skills.**
5. **Protection of the Environment and Biodiversity.**
6. **Sense of knowledge sharing & networking.**
7. **Participatory water management for inclusion of all stakeholders.**
8. **Interculturality & Openness to others.**

* Survey conducted from 06/25 to 07/05/2019.

OUR MISSIONS

OiEau covers small and large water cycles. It puts its technical, operational, institutional, legal and strategic expertise at the service of all water stakeholders. And this, at all levels, from a local authority up to national and transboundary policies.

In the field of Water and related activities, OiEau aims to:

- **Facilitate exchanges** between decision makers, designers, managers, industrialists, trainers, researchers and users concerned, to better face their problems together, coordinate their actions and disseminate their information.
- **Develop skills** and partnerships between French and foreign public and private organizations.
- **Carry out projects and programs of common and collective interest** to better meet the demands and needs of the International Water Community.

OiEau carries out its missions:

- **Worldwide**, as part of cooperation projects on the different continents.
- **In Europe**, to promote a concerted approach to the management of water resources and aquatic environments, on a continental scale.
- **In France**, to strengthen and multiply the actions of various public and private stakeholders in the sector.

OUR FIELDS OF EXPERTISE - IN FRANCE AND WORLDWIDE -

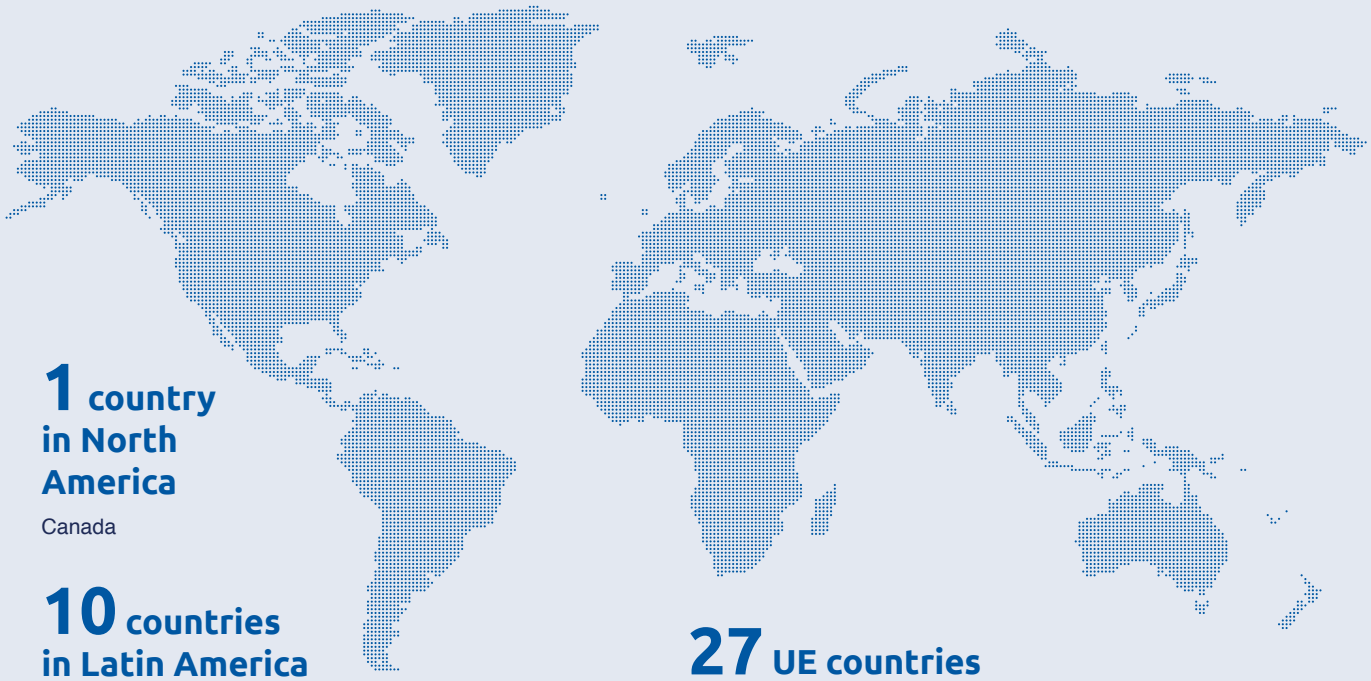
Continuing training for water and environmental professionals.

Use of water-related knowledge & information systems.

Technical and institutional support – Cooperation.

Networking of water stakeholders.

OiEau AROUND THE WORLD



1 country in North America

Canada

10 countries in Latin America & the Caribbean

Bolivia
Brazil
Chile
Colombia
Cuba
Ecuador
Haiti
Mexico
Peru
Suriname

10 countries in Asia & Central Asia

Cambodia
China
Laos
Myanmar
Nepal
Malaysia
Thailand
Vietnam
Kazakhstan
Kyrgyzstan

24 countries in Africa

Angola
Benin
Burundi
Burkina Faso
Cameroon
Central African Republic
Chad
Côte d'Ivoire
Democratic Republic of Congo
Equatorial Guinea
Gabon
Guinea
Kenya
Madagascar
Mali
Mauritania
Niger
Nigeria
Republic of Congo
Rwanda
Senegal
Tanzania
Togo
Zambia

& 150 partner organizations

27 UE countries

Austria
Belgium
Bulgaria
Cyprus
Croatia
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Ireland
Italy
Latvia
Lithuania
Luxembourg
Malta
Netherlands
Poland
Portugal
Romania
Slovakia
Slovenia
Spain
Sweden

6 European countries outside the EU

Armenia
Azerbaijan
Belarus
Georgia
Moldova
Ukraine

6 Mediterranean countries

Algeria
Egypt
Lebanon
Morocco
Palestine
Tunisia

FRANCE Mainland & Overseas

All mainland Regions
Guadeloupe
Guyana
Martinique
Mayotte
New Caledonia
Reunion

DATA & INFORMATION SYSTEMS

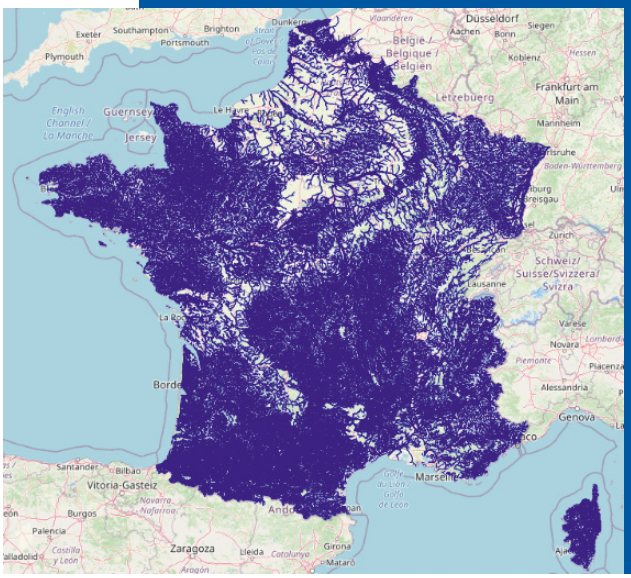
Knowledge, the management of resources and public services, the coherence of policies and their adaptation to changes in the world rely heavily on the ability to collect, process, enhance and share data and information. Data interoperability and open access to information are the challenges of today and tomorrow. They accompany the evolution of Integrated Water Resources Management (IWRM) which is, and must be, intrinsically open to all social, political, economic and, of course, environmental sectors.

OiEau is a unique and historical actor in the management of data and information on water, biodiversity and associated public and private services. Indeed, the diversity of the expertise held by our teams offers a crossroads of skills between the technical, scientific and statistical aspects, and the capacities for designing, developing, hosting and managing information and documentation systems. These systems that we design can then be applied to any geographical scale and cross multiple environmental themes.

In France, OiEau collects data on water with the aim of improving shared knowledge of the environment, the impact of pressures on the environments, pollution, resource sharing, climate change, etc.
We run the technical secretariat of the National Administration Service for Water Data and Reference Frameworks (Sandre - see p. 9), ensuring the technical and semantic interoperability of the French Water Information System (WIS).

Within the framework of our monitoring and strategic analysis activities, we also provide European stakeholders with our expertise in the implementation of the EU water policy. We ensure the links between national information and reporting systems and European obligations, such as the INSPIRE Directive, the European Water Information System (WISE), etc.

These skills are recognised in France and in Europe and are also recognised in many other countries around the world. We operate to design water data repositories, develop observatories, and strengthen information sharing within a country, a region, or a large transboundary river basin.



LabPSE - Experimenting the implementation of a marketplace for payments for environmental services (PES)

EUROPE I France - Brittany

TRAME, France

LabPSE experimenting the implementation of a marketplace for payments for environmental services (PES) in the territories. Contributes to the emergence of PES supply and demand.

- Agriculture
- Assistance and Consulting

November 2018

- ✓ Making available the national geolocalisation application GREEN.
- ✓ Contributing to contractualising PES aspects.
- ✓ Analysing the consequences for farms.
- ✓ Assessing cross-responsibilities and ethics rules for stakeholders.

Management of the French National Service for Water Data and Common Repositories Management (SANDRE)

EUROPE I France

French Biodiversity Agency (OFB)

- Information systems

The French National Service for Water Data and Common Repositories Management shares data on water and its environment. It brings together organisations that add their expertise to constitute and administer reference databases on water and ensuring their consistency.

- ✓ Administering reference databases and national listings.
- ✓ Developing technical solutions for exchanging data and ensuring interoperability with information systems belonging to France and European nations.

January 1993

http://www.sandre.eaufrance.fr

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Assistance to users of MesureStep and AutoStep

EUROPE I France

OFB - Ministry of Ecology

- Sewage

MesureStep and AutoStep programs are used to enter and generate self-monitoring data from sewage systems, to export or import this data in Sandre format and to analyse them (compliance assessment), and to produced monthly and yearly self-monitoring results.

- ✓ Assistance with the use of this software for compliance with the Sandre format and data exchange formats.
- ✓ Training on the MesureStep program.

January 2007

http://assainissement.developpement-durable.gouv.fr/services.php

© OiEau

Developing a concept for an up to date information system for the European Urban Waste Water Directive (SIIF 1)

EUROPE I The 28 EU member states[1]

European Commission, Environment DG

- Information systems
- Sewage

Defining and producing European documents explaining the concept of a structured framework for reporting information (SIIF) so that the 28 member states can use the tools developed. This way usefully making available reliable data on managing urban waste water in Europe can be achieved by all.

- ✓ Producing a complete set of documents covering the assessment of the current situation in all of the (then) 28 EU member states.
- ✓ A targeted survey of key stakeholders.
- ✓ Specifying and planning an IT support system for reporting.

June 2020

RICARDO Sludge - Provision of services in waste water and the circular economy

EUROPE I Territory covered by the European Environment Agency (32 member countries)[2]

European Environment Agency

- Treating sewage sludge
- Circular economy

From wide ranging searches for bibliographies and feedback, RICARDO Sludge analyses the way that sewage sludge could be managed in a circular economy and what changes in practices are needed to guarantee environmental and sanitary innocuousness.

- ✓ Searching for references in the recycling and the elimination of sewage sludge in Europe.
- ✓ Developing a substantiated argumentation for a change in practices.
- ✓ Proposing alternatives or improvements.

July 2020

Non-point-source pollution in aquatic environments - Nitrates originating from agriculture

EUROPE I France

OFB

- Data management
- Agriculture

The Nitrates Directive aims to protect water from nitrate pollution from agricultural sources and France is legally required to meet its requirements. To do this, it needs reports based on reliable data. This project implements the mechanism, from the collection to the release of the processed data.

- ✓ Data collection
- ✓ Usage (analysis and comparison)
- ✓ Extracting value (data summaries) from the data on the protection of water from pollution from nitrates originating in agriculture

May 2012

SIIF-UWWTD: An open source tool for accelerating the availability of waste water data by European nations

EUROPE I European Union[3]

European Commission

- Sewage
- Information systems

SIIF-UWWTD (Structured Implementation and Information Framework - Urban Waste Water Treatment Directive) is a system that integrates and structures all of the reporting data on urban waste water at the European level. It allows checking compliance with UWWTD while offering decision makers and the general public, accurate and analysed data on the sector.

Producing a generic website using open source technologies for:

- ✓ loading data sets from every member country,
- ✓ running calculations,
- ✓ viewing results and easily making them accessible to any audience.

December 2012

http://uwwtd.oieau.fr/content/about-uwwtd-siif

(1) Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom.

(2) Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France (including French Guyana, Guadeloupe, Martinique, Polynesia, New Caledonia and Reunion), Germany, Gibraltar, Greece, Greenland, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, North Macedonia, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom.

(3) Cyprus, Croatia, Denmark, Estonia, Finland, France (including Martinique and French Guyana), Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom.

Supporting the integrated and shared management of data on water usage and resources for the cross-border Chu river basin

ASIA I Kirghizistan I Kazakhstan I Chu river basin

Ministry for water resources, SDC

Making available to the public and using data that is hard to access on the status of water resources ensures that, at the cross-border basin level, it is possible to better federate stakeholders around the challenges of integrated and shared management.

- Developing information systems
- Water resources management

✓ Developing dynamic maps (web mapping) and interactive diagrams and placing them on-line and allow their access via tablet.
✓ Automatic calculations for summaries or comparative analyses.
✓ Modules for downloading datasets.

December 2013

Reinforcing water information systems for the Chu-Talas river basins

ASIA I Kirghizistan I Kazakhstan I Chu-Talas river basins

Hydrosolutions

Improving the procedures for managing and sharing data on water with on-line monitoring and access to new information services (reports, indicators, bulletins, maps) dedicated to agricultural practices.

- Agriculture
- Information systems

✓ Complete modernisation of the bottom-up planning of water demand for irrigation and of the top down water distribution system based on supply, in the Chu-Talas river basins.
✓ Digitising and automating the accounting procedures in place.

December 2016

BIO - PLATEAUX

LATIN AMERICA I Brazil I France I Suriname I The Maroni and Oyapock catchment basins

Guyana Water Office, DEAL, CNES, CTG

- Water resources management
- Support - Assistance and Consulting

BIO-PLATEAUX (2019-2021) aims to ensure that French Guyana and its neighbours Brazil and Suriname share information on water and biodiversity associated with aquatic environments. Especially the catchment basins of the Oyapock and Maroni rivers. It aims to better understand resources and uses as well as the impacts involved across the shared catchment basins.

✓ Carrying the project as a recognised public non-profit, tasked with implementing the activities from a technical and financial point of view.
✓ Facilitating international exchanges.

July 2019

https://www.bio-plateaux.org/fr

Smart.met

EUROPE I Belgium I France I Hungary I Italy I Spain

European Commission / Directorate-General for Communications Networks, Content and Technology / Mobility and intelligent habitats

- Sewage
- Drinking water
- Information systems

Developing new technologies for collecting and managing data from smart meters though a pre-commercial procurement (PCP) procedure.

✓ Project coordination.
✓ Thinking about ethical demands (project manual report, reports, recommendations on interoperability, standardisation).

June 2016

https://www.smart-met.eu/

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TRAINING

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For more than 40 years, OiEau's trainers have been designing, developing and validating teaching methods that are used on a daily basis. This experience made it possible to design and produce tools and operational technical installations on a full-scale platform, aimed at recreating a teaching environment close to the real working conditions of the learners.

Today, our 35 permanent trainers provide 6,000 water professionals each year with objective educational content that is independent of commercial interests. With 43,000 m² of teaching platforms, the technical training courses make the learners' professional practices and gestures more reliable. Catalogue training allows rich and varied experience to be shared with participants from different institutions. Tailor-made training is provided on our sites or at the client's premises, in France and abroad.

OiEau's offer has expanded with the development of digitisation, with the aim of maintaining quality training, both from the catalogue and tailor-made. Thus, distance learning, virtual courses and classes, or mixed synchronous and asynchronous training provide unequalled flexibility, to meet every skill management need.

OiEau also studies, designs and implements training plans for long-term and structured actions, coupled if necessary with technical support, in order to offer real global and customised solutions that can be implemented over time.

Eurostat training on statistics relating to waste water

EUROPE | European Union*

European Commission - Eurostat DG

- Sewage
- Drinking water

As part of a Eurostat training program for statisticians from member states, training sessions are devoted to statistics on water and sewage.

Training Eurostat statisticians on the entire water cycle, from catchment to release, including emissions in water. The key concepts used are illustrated.

May 2016

The regulation and management of water and water and sanitation services

On average, in 3 years: more than 1200 professionals trained

These training courses make it possible to initiate, develop and strengthen knowledge to better understand the main principles and challenges of regulation, organisation and management of water and sanitation services. (Regulations, subscriber management, Management and leadership, Public procurement, Quality and project management, governance of services).

- ✓ Real-life examples of management and administration
- ✓ Management software used in the professional world
- ✓ Computer tools to illustrate the in-house developed methods
- ✓ Tools and methods of participative animation
- ✓ Ludo-pedagogy (evaluation tool).

Project to reinforce the drinking water supply system in Niamey

AFRICA | Niger - Niamey

Société de Patrimoine des Eaux du Niger (SPEN)

- Drinking water

SPEN wishes to implement a project to reinforce the drinking water supply system for the City of Niamey and requires technical assistance services for management.

- ✓ Organisational diagnostics.
- ✓ Plan to enhance staff abilities.
- ✓ Recommendations for organisational changes.
- ✓ Developing a transformation plan and implementing a program to train SPEN staff.

June 2018

Personal safety: in water industry, in laboratory, in transport, in treatment plants, in confined spaces confined spaces, and on networks

On average, in 3 years: more than 1400 professionals trained

The training courses are an opportunity to understand the risks and to simulate in complete safety the behaviour adapted to the situations encountered.

OiEau is certified CATEC (Certificate of Ability to Work in (Certificate of Ability to Work in Confined Spaces) and an examination centre for AIPR (Autorisation d'Intervention à Proximité des Networks).
In the laboratory, on construction sites or on plants, the educational platforms of the International Office allow you to reproduce a variety of conditions in which you may have to take action.

* Germany, Andorra, Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France (including French Guyana, Guadeloupe, Martinique, Polynesia, New Caledonia and Reunion), Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom.

Drinking water distribution: Initiation, Operation, Design and sizing, Installation and rehabilitation, Network efficiency, Asset management

On average, in 3 years: more than 2400 professionals trained

These training courses deal with the technical and asset knowledge of drinking water networks which is a strategic issue for all network operators and owners.

OiEau has a set of technical equipment and facilities: training platform for the laying of drinking water pipes, test and maintenance bench for fire hydrants, hydraulic regulation bench, metering and remote reading bench, experimental network and equipment for pipe detection and leak detection.

On-site sanitation: Management, Design, Construction, Control, Maintenance

On average, in 3 years: over 500 professionals trained

These training courses cover the changes brought by the Grenelle 2 french law in terms of on-site sanitation: construction, inspection, rehabilitation, sale, etc., as well as the range of equipment and devices that has greatly diversified in recent years.

Classic or compact systems, different categories of approved devices, as well as various construction, diagnostic and control materials for non-collective sanitation installations are used.

Indoor networks, sanitary protection and rainwater

On average, in 3 years: over 500 professionals trained

Sanitary protection, backflow, the use of rainwater, etc. are subjects that are of great concern in terms of the health and durability of indoor networks.

As a training and examination centre, the Office International de l'Eau has a test bench for backflow preventer maintenance and educational materials on sanitary protection. It is Qualipluie approved.

Sewerage and stormwater systems: regulations, design, operation, diagnosis, rehabilitation, asset management, quality control, self-monitoring

On average, in 3 years: more than 1660 professionals trained

The control of stormwater and the proper management of their sewerage networks are a challenge for local authorities, faced with the constraints of sizing and rehabilitating these networks and the requirements of preserving the receiving aquatic environments.

Our training centre has various facilities:
- ✓ A multi-material network (cast iron, PVC, concrete) above ground,
- ✓ A facility for presenting alternative rainwater management techniques,
- ✓ An experimental network that can be visited and a facility dedicated to the intervention on asbestos in networks.

Mechanical and electrical maintenance, energy, automation and remote management : electricity and network instrumentation

On average, in 3 years: over 550 professionals trained

Cross-cutting disciplines, affecting both the drinking water and wastewater sectors, from the treatment plant to the networks, these topics cover professions with high requirements and multiple skills.

The OiEau platforms are useful for practising the assembly and disassembly of pumps from the main suppliers, programming micro-automats and practising the software most commonly used in water and wastewater plants.

Rivers and water bodies: regulations, initiation, management, restoration, diagnosis

On average, in 3 years: over 170 professionals trained

The NOTRe French law provides for the transfer of "aquatic environment management" and "flood prevention" competencies to inter-communal authorities. The protection of natural aquatic areas and the preservation of biodiversity are priority issues.

OiEau uses field situations, on selected natural sites, to complement these platforms:
- ✓ Materials and equipment showroom
- ✓ Alternative techniques platform Stormwater and Nature-based Solutions (NBS)

Drinking water production: Initiation, Regulations, Design - Reception, Treatment techniques, Operation, Audit and control

On average, in 3 years: more than 850 professionals trained

The International Office for Water uses educational facilities to simulate multiple operating conditions for a better understanding of drinking water treatment technologies.

The OiEau has a platform using the techniques of coagulation, flocculation, lamellar decantation, sand filtration, adsorption on granular activated carbon, correction of mineralization by adding carbon dioxide and lime, disinfection with ozone, chlorine, chlorine dioxide or ultraviolet light. OiEau has also developed blended learning courses.

Metrology and analysis: Water chemistry, Sampling, Quality and data management, Laboratory analysis, Drinking water, Waste water (Micropollutants), Bacteriology

On average, in 3 years: more than 4000 professionals trained

OiEau offers a wide range of training courses covering the different aspects of the measurement and analysis science applied to the water and sanitation sector.

Facilities equipped with the most recent sensors and flow-metering equipment, an open channel with the use of samplers, a water analysis laboratory and sampling equipment.

Sludge and odour treatment : bio-waste, effluent treatment

On average, in 3 years: over 190 professionals trained

Residues obtained at the end of the treatment process, wastewater treatment plant sludge can undergo various treatments in order to reduce its volume and make it a valuable product.

Different WWTP sludge treatment equipment can be observed, implemented and tested on our installation: centrifuge, belt filter filter press, dewatering platform, air filtration platform.

Water in agriculture : agriculture and irrigation

On average, in 3 years: more than 100 professionals trained

These training courses enable participants to learn about, develop and strengthen their knowledge of the uses and treatment of water for agriculture and irrigation.

Provision of educational tools on the design, management and operation of irrigation systems, as well as on the treatment of agricultural effluents; implementation of good practices; regulations.

© OiEau

Drilling, Pumping and Groundwater

On average, in 3 years: over 300 professionals trained

Choosing a pump, operating a borehole, commissioning a booster are some of the subjects that the International Office for Water offers you to tackle while benefiting from technical facilities that are unique in terms of the diversity of their equipment.
The OiEau also offers two training courses to acquire the basics of hydrogeology and groundwater monitoring.

The training centre is equipped with a hydrological bench for demonstrating or testing pumps and control devices on networks.
A wide variety of pumps and pumping elements are also on display: complete, in section, disassembled.

Swimming pool and bathing water

On average, in 3 years: over 130 professionals trained

The control and treatment of swimming pool water meets regulatory constraints requiring operators to have a good knowledge of the fundamentals of water treatment in swimming pools... Since 2010, a series of measures aim to limit the exposure of populations to the physicochemical and bacteriological risks identified in swimming pools.

- ✓ Multi-station pollution characterisation laboratory (laboratory equipment and field analysis equipment)
- ✓ Multi-station microbiology laboratory
- ✓ Specific platform for the production or manipulation of chlorine gas, liquid, ozone, etc.

The International Office for Water offers training leading to qualifications, recognised by swimming pool professionals.

© OiEau

Urban wastewater treatment: regulation, rehabilitation, design-sizing, safety, operation, management of WWTPs (Wastewater Treatment Plants)

On average, in 3 years: more than 1860 professionals trained

The current objectives of reducing point-source and diffuse pollution and pollution linked to the presence of micro-pollutants in aquatic environments require a good knowledge and better control of effluent treatment processes.

The La Souterraine site has teaching facilities that are representative of urban and industrial wastewater treatment: a physico-chemical treatment plant, an activated sludge treatment plant with 500 PE, a microscopy room, and a water and sludge analysis laboratory.

Waste: treatment and recovery, maintenance, health and safety, environment, sustainable development

On average, in 3 years: over 370 professionals trained

These training courses include topics as diverse as service management, collection and sorting, waste recovery, safety at work, transport of dangerous goods, polluted sites and soils, etc.

OiEau uses field situations to complement these platforms:
- ✓ Waste platform
- ✓ Sorting platform
- ✓ Pollution characterisation laboratory

Water in industry: water cycle, regulations, industrial clean water, industrial effluent treatment and surface treatment detoxification

On average, in 3 years: over 560 professionals trained

From process water treatment to effluent reprocessing, these training courses enable industrial companies to train their staff to improve and optimise the operation of their water installations and thus secure their production.

The various stages of wastewater and sludge treatment can be observed, implemented and tested in treatment units, specific platforms and laboratories.

Discovery jobs : Sanitation, Drinking water, Industry, Services, Environments

On average, in 3 years: over 200 professionals trained

Participation in these training courses gives the opportunity to:
- to acquire the basic principles and vocabulary of the large and small water cycle,
- to build a "job" culture,
- to discover and visualise "typical" installations, to handle various materials used by your colleagues or clients in the field.

These training courses are an opportunity to visit installations in operation, to handle professional equipment, to visualise theoretical concepts and more or less complex processes in a simple and didactic way.

TECHNICAL AND INSTITUTIONAL SUPPORT

OiEau's expertise it covers the entire water and, more widely, environment sector. From technical and technological fields to the design of data repositories, through innovation projects, stakeholder consultation, or the implementation of the best water governance models, our staff is involved in many support actions for the sectoral stakeholders, in France and worldwide.

The independence of our structure, our values of commitment to our clients and partners, and the diverse but complementary skills we offer, enable us to provide global support for the implementation of Integrated Water Resources Management (IWRM) policies, to increase the capacities of water, sanitation and waste operators, and to structure the sharing of data and knowledge at local and international levels.

© OiEau

These support missions are more and more often implemented through multi-year and cross-cutting actions. They allow acting in the medium and long term, which is essential for taking into account the stakes of climate change and biodiversity preservation, by integrating the incompressible time for accompanying change and capacity building.

OiEau is also mobilized in more specific situations, requiring, for example, diagnoses of malfunctions, assistance with the restarting of a treatment plant; emergency training of executives or technicians; assistance with public or private project ownership, etc.

This expertise or support activity is widely recognised. Each year, more than 220 expertise assignments are carried out for stakeholders who rely on OiEau to guide them, in complete independence, towards the best management, the best techniques, the best information sharing and analysis...

Whether they are ministries or national operators, private companies, public utilities, local authorities, suppliers or industrialists, consulting firms, etc., our customers and partners all participate in OiEau's growth, in the national and international recognition of our skills and values.

Functional analysis for Syndicat des Eaux du Soissonnais et Valois water utility authority and recommendations for improving efficiency

EUROPE | France - Courmelles (02)

Syndicat des Eaux du Soissonnais et Valois

- Sewage treatment and drinking water
- Service management

This is an organisational, administrative and technical improvement project for the application of the authority's powers. The latter defines the human resources and expertise required.

- ✓ Functional analysis of the existing operation.
- ✓ Recommendations and action plans for the short and medium terms.

January 2021

Incubation of a climate change adaptation project in the Sanaga basin

AFRICA | Cameroon - Sanaga River Basin

AERM

- Water resource management

The development of an adaptation strategy to global changes on water resources (quantity and quality) in the Sanaga basin is an imperative necessity. The contribution to the implementation of Integrated Water Resources Management (IWRM) mechanisms, in particular with the involvement of the different water users, feeds this strategy.

- ✓ Assessment and diagnosis of the impacts of climate change.
- ✓ Development of a resource management strategy.
- ✓ Support in setting up and financing the projects to be implemented.

November 2019

https://www.riob.org/fr/incubation/GIRE-bassin-Sanaga

Tenth technical assessment of information on the implementation of Council Directive 91/271/EEC (SIIF 5)

EUROPE

European Commission, Environment DG

- Sewage

Assessing data reported in virtue of the Urban Waste Water Treatment Directive (UWWTD 91/271/EEC), through the SIIF-ERU platforms developed by IOWater.

As part of the tenth reporting on the implementation of the Urban Waste Water Treatment Directive:

- ✓ Technical assistance in assessing legal compliance by every member state, relating to their implementation of the directive.
- ✓ Assessing the responses to legal requests by the Commission sent to the member states that have not met their obligations under the terms of the Directive.
- ✓ Developing tools for analysing and assessing data.

September 2018

https://uwwtd.eu

© OiEau

Support for integrated water resources management in Madagascar

AFRICA | Madagascar - Lake Itasy catchment basin

Itasy Region, Ministry of Water, Energy and Hydrocarbons

- Water resources management

Developing integrated water resources management in Madagascar from the Lake Itasy catchment basin based on improved governance, a programming process at lake level (such as a lake contract), organising data management and developing an information system to gain tools to assist with decision making.

- ✓ Analysis reports on requirements for the information system and the institutional and legal frameworks.
- ✓ Compiling experience from the field.
- ✓ Organising seminares and workshops.

March 2018

© OiEau

AfriAlliance

AFRICA

European Commission - Research DG - H2020

- Climate change
- Water resources management

The AfriAlliance aims to reinforce Africa's capacity to respond to the challenges relating to water and adapting to climate change by supporting existing networks in Africa and Europe, for sharing innovative solutions.

- ✓ Analysing innovation solutions.
- ✓ Proposing long term, shared, research and innovation program.
- ✓ Internal and external communication strategy.
- ✓ Distributing project results.

March 2016

http://afrialliance.org/

French Guyana - SDAGE

AMERICA | France - French Guyana

Guyana Water Office

- Water resources management
- Water environments

Preparing the proposed masterplan for water development and management (SDAGE) for French Guyana and its measurement program (2022-2027). Economic analysis, environmental assessment and management in line with applicable regulations and client expectations.

- ✓ Supporting the writing of the SDAGE and ensuring its secure legal basis.
- ✓ Preparing the strategy for organising local water expertise (SOCLE).

December 2019

Prior study for managing the Kou basin in Burkina Faso

AFRICA | Burkina Faso - Hauts-Bassins region

CIEDEL, F3E

- Water resources management
- Agriculture
- Governance

This prior study proposes an operational strategy for managing and protecting resources in the Kou basin, when faced with an organisational deficit and a lack of mobilisation on the part of the various stakeholders. Three aspects were touched on: water resource issues, agro-sylvo-pastoralism and institutional governance aspects.

- ✓ Assessing factors in the deterioration of the catchment basin situation.
- ✓ Designing technical, agricultural, institutional, environmental and financial solutions.

November 2019

Incubating Nakanbé individual sanitation and agriculture projects

AFRICA | Burkina Faso - Nakanbé basin

Nakanbé Water Agency (AEN)

- Water and climate change
- Water resources management
- Sewage
- Drinking water

The existing information collected on the impact of climate change is set out in parallel with local projects to adapt to climate change, in the water and sanitation fields.

- ✓ Status report and diagnostics covering climatic impact on water management and water environments.
- ✓ Assisting local players in putting together and financing projects for adapting to climate change that, among others, make use of solutions to use waste water at the local level.

May 2019

https://www.riob.org/fr/incubation/agro-ecologie_bassin-Nakanbe

Incubating projects for adapting to climate change in the Senegal river basin

AFRICA | Guinea | Mali | Mauritania | Senegal - Senegal River Basin

Organisation for the Development of the Senegal River Basin (OMVS)

- Water and agriculture
- Water and climate change
- Water resources management

This project aims to see ambitious projects emerge for adapting to climate change in the Senegal river basin It also intends to encourage the implementation of integrated water resources management by seeing the emergence of resource management tools. The resilience of the hydrographic basin will directly benefit the populations.

- ✓ Identifying requirements in terms of decision making tools, remote detection and water quality monitoring.
- ✓ Analysing ongoing projects in the basin.
- ✓ Identifying potential sources of funding as part of the Climate Finance initiative.

December 2018

https://www.riob.org/fr/incubation

Assistance to project managers in recruiting a private operator to reinforce the Hydrological Service in the Republic of Congo

AFRICA | Republic of Congo

Ministry of Development, Territorial Equipment and Major Works (MAETGT) and French Development Agency AFD

- Risks
- Water resources management

The overall aim is to reinforce the mechanisms for producing data relating to hydrology and climate, including their use in planning urban development projects in the Republic of Congo.

- ✓ Assessing national hydrological and meteorological services.
- ✓ Performing a feasibility study.
- ✓ Assisting project managers.

January 2016

Madagascar - Water and Climate Incubation for Africa

AFRICA | Madagascar - Central Highlands - Lake Itasy basin

Madagascar Ministry of Water, Energy and Hydrocarbons (taking over from the former Directorage for Water and Sanitation management)

- Water resources management
- Agroecology

Incubating multiple projects to support the development of agroecological practices in rural communities upstream from Lake Itasy, with the aim of recovering deteriorated ecosystems and durably promoting the agricultural and forestry sectors.

- ✓ Determining scientific knowledge relating to climate changes affecting the territory.
- ✓ Writing a project presentation form for adapting the territory and costing related investment spending and potential backers.

April 2019

https://www.riob.org/fr/incubation/ecosystemes-aquatiques-Madagascar

Incubating water and climate projects for Africa in Benin and Togo

AFRICA | Benin | Togo - Mono river catchment area

AERMC

- Water and climate change
- Water resources management

Adapting to climate change constitutes a major challenge for Benin and Togo. The proposed approach for reducing the impact of these effects comprises incubating major projects targeted around technical assistance and identifying issued, involving local project leaders and funding providers.

- ✓ Supporting the emergence of projects to adapt to climate change.
- ✓ Identifying future partners and stakeholders for implementing projects.

October 2019

https://www.riob.org/fr/incubation/CC-lagunes-cotieres-Benin

Massili-Ziga Water Development and Management Plan incubation

AFRICA | Burkina Faso - Nakanbé basin - Massili Ziga territory

Nakanbé Water Agency (AEN)

- Water and climate change
- Flooding
- Risks

The project is part of the measures to incubate projects for flood management, fighting erosion and preserving and maintaining water resources in the Nakanbé basin.

- ✓ Status report and diagnostics covering climatic impact on water management and water environments.
- ✓ Providing support when applying for and financing projects for adapting to climate change.

August 2019

https://www.riob.org/fr/Incubation/GIRE-bassin-Massili-Ziga

Kandaji dam management

AFRICA | Niger

High Commission for the Development of the Niger Valley

- Water resources management

This study is intended to define the most suitable institutional mechanism for multiple sector management of the water in the Kandadji reservoir, at the national and Niger river basin levels. Operation and maintenance of the future hydroelectric plant and dam will also be studied.

- ✓ Proposing a number of types of suitable management structures, with an analysis of their pros and cons.

January 2017

Assisting with project management for building a solar powered sewage sludge drying facility and optimising the disposal chain

MIDDLE EAST | Palestine - Ramallah

City of Ramallah

- Sewage
- Drinking water

Assisting with project management comprises defining the conditions for implementing and operating a solar powered sludge drying facility and proposing alternative ways to eliminate them.

- ✓ Feasibility study for building a solar powered sewage sludge drying facility.
- ✓ Seeking alternative routes for making use of sludge.
- ✓ A technical-economic assessment of the existing process.
- ✓ Training for operating a sewage plant.

March 2019

Institutional support for Integrated Water Resources Management in Ecuador - Phase 3

LATIN AMERICA | Ecuador | Portoviejo | Chone | Jipijapa

Ministry of Environment and Water (MAAE)

- Water resources management
- Governance

The main components of the project are as follows: taking part in the conformation and the activation of Basin Councils; planning by developing a plan for protecting and conserving the environment and supporting the development of information systems.

- ✓ Setting out the situation in the Rio Portoviejo basin.
- ✓ Working at the central level with the Ministry of Environment and Water.
- ✓ Ensuring synergies with the regional water funds.

June 2019

Improving sanitation at Bac Ha, Vietnam

ASIA | Vietnam - Bắc Hà District

Lao Cai Province

- Sewage

Proposing a program of improvements for the sanitation service in Bac Ha district, especially through technical, financial and organisational optimisations and by improving management.

- ✓ An assessment of the current sanitation system.
- ✓ Proposing a program of technical, financial and organisational optimisations for service management.

October 2019

Support for integrated water resources management in Myanmar - Phase II

ASIA | Myanmar - Balu Basin

Ministry of Natural Resources and Environmental Conservation (MoNREC)

- Water resources management
- Governance

Setting out a management plan for the Balu river basin, encouraging participation by local stakeholders in the integrated water resources management process and investigating ways of paying for the Program of Measures.

- ✓ Implementing the integrated water resources management process for the Balu river basin project.
- ✓ Basin characterisation.
- ✓ Defining issues and stakes.
- ✓ Defining objectives.

February 2018

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FACILITATION AND DEVELOPMENT OF STAKEHOLDER NETWORKS

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Since its creation 30 years ago, OiEau has been involved in a strategic mission, the networking of stakeholders of the water sector.

Initiated with French public operators, this mission was quickly extended to the international level with the creation of INBO (International Network of Basin Organizations - see p. 27) in 1994.

These networks, at the service of communities of water and biodiversity stakeholders, and of the environment in general, are intended to be an interface for dialogue, exchange of practices and capitalisation of knowledge, to provide them with resources to achieve better management of water resources and natural environments.

Federating many expertises, these networks rely on Web portals to gather and make available to the professionals, and even to the general public, experience feedbacks, technical or institutional initiatives, "toolboxes". OiEau has indeed adopted Web technology since its emergence in 1993, and is able to design and run Internet portals adapted to the specific needs of communities.

It can also organise events from the local to the international level, multilingual if necessary, in order to allow the partners to meet and thus animate the life of the networks. Finally, OiEau coordinates awareness-raising actions towards a defined target public, in consultation with the community leaders.

Formapr'eau

formapr'eau
Les formations continues sur les milieux aquatiques en France

EUROPE I France

Water stakeholders and professionals (operators, industry, etc.)

- Water environments
- Facilitation of stakeholders' networks

The Formapr'eau platform presents short professional training courses on water environments (rivers, lakes, wetlands, estuaries, coastal environments and groundwater), in France. In parallel, Formapr'eau enables networking training centres.

- ✓ Networking short vocational training stakeholders in France.
- ✓ Managing a web portal.
- ✓ Looking for new operators.

March 2015

http://www.formapreau.fr/

Catchment Areas Portal: technical resources and actors networks"

Aires d'alimentation de captages

EUROPE I France

OFB

- Animation of networks of actors
- Drinking water

The portal " Water catchment areas (AAC): Technical resources and stakeholder networks" provides technical support to stakeholders on the implementation of approaches to protect water catchments against diffuse pollution.

- ✓ Networking of stakeholders involved in the protection of AACs (territorial stakeholders, experts, State services, consultancy firms, etc.) and facilitating their access to information, capitalising on and sharing experiences and federating the stakeholders.
- ✓ Animation of a web portal.

March 2017

https://aires-captages.fr/

Gest'eau

GEST'EAU
La communauté des acteurs de gestion intégrée de l'eau

EUROPE I France

SDAGE / SAGE / River Contract managers

- Facilitation of stakeholders' networks
- Resource management

Gest'eau proposes information on masterplans for water development and management (SDAGE) and water development and management schemes (SAGE) as well as on environmental contracts (for a river, a bay). It federates the stakeholders, offering them the tools to support them in their approach.

- ✓ Centralising, creating and distributing information, tools and documentation.
- ✓ Networking stakeholders and event organisation.
- ✓ Monitoring progress with water development and management schemes and environmental contracts.
- ✓ Developing exchanges with other networks.

January 2002

https://www.gesteau.fr/

International Network of Water Training Centres - INWTC

Réseau International des Centres de Formation aux Métiers de l'Eau RICFME

WORLD

Ministry of Foreign Affairs ;
AFD (French Development Agency)

- Animation of networks of actors
- Professional training

Federating all initiatives to help improve the management, operation and maintenance skills of managers, team leaders, employees and workers in the water sector. The target audience is mainly those working in treatment plants or networks in developing countries, particularly in the drinking water supply, sewerage and wastewater treatment or irrigation sectors.

- ✓ Networking of professional training actors in the water and sanitation sector.
- ✓ Animation of a web portal.

November 2008

http://www.ricfme.org/

Eau dans la Ville - Water in the City

EUROPE I France

Elected representatives, local authorities and water and sewage departments

- Sewage
- Drinking water

"Eaudanslaville" (Water in the City) is a website for public bodies for cooperation between towns and cities (EPCI), mayors, local elected officials and water authorities or companies. It proposes practical, technical, legal and financial answers to frequently asked questions (FAQs) linked to managing the water cycle biodiversity. Subscribers have the benefit of access to the Guide to Services, with theme-based data sheets and best practices collected from the field.

- ✓ Managing the website including putting technical, legal and financial content on-line for free access.
- ✓ A guide to services with theme-based data sheets.
- ✓ FAQ

January 2003

https://www.oieau.fr/eaudanslaville/

The "Eau & Biodiversité" (Water & Biodiversity) documentation portal

EUROPE I France

General public, water stakeholders and practitioners

- Facilitation of stakeholders' networks
- Documentation and publications

This digital portal is a generalised access system open to all documents relating to water, water environment and biodiversity, produced by the public sector.

- ✓ Documentation portal feasibility study: technical support, facilitating the national documentation network, coordinating and evolving the portal.
- ✓ Processing documents on water, water environments and biodiversity.

June 2006

http://www.documentation.eauetbiodiversite.fr

EAUDOC

AFRICA, AMERICA, ASIA, EUROPE I France

Water and environmental professionals

- Facilitation of stakeholders' networks
- Documentation and publications

Born of a heritage fund initiated in 1970 and managed in Limoges, France, by IOWater, this virtual library on water covers all of the major aspects of small and major water cycles: institutional, administrative, economic, scientific and technical. References are French and international ones.

- ✓ Heritage preservation of all water sector documents
- ✓ Managing networks of the main public water stakeholders in France
- ✓ Producing multilingual terminological databases and a water thesaurus
- ✓ Developing documentation portals

June 2006

http://www.documentation.oieau.fr

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© OiEau

Facilitation for French stakeholders in the European Centre for River Restoration

EUROPE I France

OFB

- Facilitation of stakeholders' networks
- Water environments

This stakeholder network is intended to facilitate access to operational information (technical content or awareness raising) to assist water environment management professionals in undertaking restoration projects.

- ✓ Identifying stakeholders' networks
- ✓ Distributing and using news
- ✓ Distributing research work on natural water retention measures (NWRM).

January 2014

International Network of Basin Organisations - INBO

EUROPE - AFRICA - ASIA - AMERICA

National or transboundary basin organisations, national administrations in charge of water resources

- Promotion of the basin management model
- Valorisation and dissemination of knowledge
- Modernization of information systems

INBO promotes Integrated Water Resources Management (IWRM) at the level of river basins. It is recognized by all international initiatives working to improve the security of water resources and aquatic environments for peace and sustainable development.

OiEau is the Permanent Technical Secretariat of INBO. It is in charge of preparing the files of the Liaison Offices and General Assemblies, of drafting the minutes under the authority of the President, of periodically publishing the Network Newsletter and of updating the website www.riob.org. It regularly organises events, working sessions or webinars in conjunction with the members and partners of the network.

1994

www.riob.org

EdiCitNet (Edible Cities Network)

AFRICA I Tunisia I Togo

LATIN AMERICA I Cuba

EUROPE I Germany I United Kingdom I France I Italy I Spain I Netherlands I Austria I Norway I Slovenia

ASIA I China

European Union

- Water and sustainable cities
- Documentation and publications

EdiCitNet wishes to take advantage of nature-based solutions (NBS) in cities, not just to address the impacts of climate change, but also to implement urban agriculture combined with closed circuit systems for sustainable management of water, nutrients and waste.

Via Semide/Ewwis:
- ✓ Contribution to the ECS "serious game".
- ✓ Organising promotional and training workshops for monitoring and assessing water related issues.

September 2018

https://www.edicitnet.com/

© OiEau

CROSS-SECTORAL PROJECTS

The management of water, in sufficient quality and quantity, and the preservation of the environment need to be approached from multiple dimensions, whether political, economic, technical or societal...

Responses to the problems encountered require the development of a global strategy, including institutional, regulatory and financial aspects, in order to provide responses adapted to the specificities of each territory.

© OiEau

The implementation of solutions implies the use of different stages, notably:

- the setting up of an institutional framework, which is implemented in an operational manner on the ground;
- management plans, to set the objectives to be achieved at different scales, from local to basin level
- the identification and networking of stakeholders, to establish a dialogue and enable the exchange of good practices;
- the development of information systems to monitor the state of the resource and progress towards improving the situation
- the search for sustainable funding, to guarantee a long-term policy, which is necessary to take into account the challenges of climate change and the preservation of biodiversity;
- the transmission of knowledge and professional behaviour.

OiEau is able to assist a country, an institution or a territory with the implementation of all or part of these steps, thanks to its experience acquired for 30 years, on 4 continents, at various territorial scales, from local to national, including transboundary basins.

AquaVeille - The e-letter dedicated to water sector news

EUROPE | France

Enterprises in the water and environmental sectors, consultancies, public administrations, technical departments at public bodies

- Water resources management
- Documentation & Publications

The weekly electronic monitoring service covering news from the world of water, waste water processing and the environment covers technical, legal and administrative aspects in France and Europe.

- ✓ "News" monitoring for all subjects linked to water and using French, European and international sources.

January 2007

http://www.documentation.oieau.fr/veille/aquaveille

Quick Reference Guide "Flooding and Water Resources in the Var River Plain"

EUROPE | France - Var River Plain

EPA NICE ÉCO VALLÉE

- Water
- Risk management

Producing a guide for development stakeholders, presenting best practices for facing flood hazards. A catalogue of technical solutions suited to the context and to the constraints faced by these players, involved in their optimum application.

- ✓ Constituting a structured bibliography.
- ✓ Organising a participative workshop to share local specificities.
- ✓ Writing a best practices guide for developers.

August 2019

Maintenance framework contract Water and Sewage Support Unit

Caribbean - France - Guadeloupe

Guadeloupe Water Office

- Sewage
- Drinking water

As part of the water crisis in Guadeloupe, the Water Office entrusted IOWater with a cross-functional assignment to support the entities in charge of water across the territory. This assignment is intended to speed up the projects by improving departmental capacities and expertise, restoring trust with users and territorial water and sewage stakeholders.

- ✓ Ongoing discussion actions between stakeholders
- ✓ Water treatment plant diagnostics
- ✓ Modelling drinking water networks
- ✓ Technical and methodological support to operators in reducing water losses
- ✓ HR support as part of the creation of a single entity for managing water in Guadeloupe.

September 2019

Supporting Public Private Partnerships (PPP) at the municipal level

LATIN AMERICA | Brazil

Expertise France

- Sewage
- Drinking water
- Waste
- Water and sustainable cities

The support program for developing public service infrastructures is based on Public Private Partnerships (PPP) in priority sectors: waste, water-sewage treatment, public lighting, urban mobility. The aim is to reinforce the capacity to implement the relevant PPPs.

- ✓ Implementing an institutional and regulation framework for PPPs.
- ✓ Training the stakeholders in PPP projects and on the analysis of sector based specialities.
- ✓ Implementing a regulation framework for waste sector PPPs.
- ✓ Supporting the emergence of one or two targeted pilot projects.

June 2018

The Implementation and information framework for the report on urban waste water in the European Union

CENTRAL AND EASTERN EUROPE | Romania

Romanian Ministry of Environment, Water and Forests

- Sewage
- Drinking water

The implementation of processes and tools developed for IOWater such as "SIIF" (see page 14) is intended to assist the Romanian government and the Ministry of Environment, Water and Forests in analysing and facing the challenges linked to meeting requirements for treating urban waste water (UWWTD) as part of the EU Water Framework Directive.

- ✓ Examining the diagnostics report on water in Romania.
- ✓ Improving information systems for monitoring and producing reports on UWWTD.
- ✓ Producing technical specifications that update the existing UWWTD declaration systems.
- ✓ Reinforcing personnel skills.

September 2019

TWIST

EUROPE | Spain | France | Portugal

INTERREG SUDOE program in the context of the European Regional Development Fund (ERDF)

- Sewage
- Drinking water
- Circular economy

TWIST – Transnational Water Innovation Strategy is a project that develops an open innovation model in the field of waste water management in compliance with the framework directive on water and by promoting a circular economy model.

- ✓ Analysing innovation processes.
- ✓ Creating living laboratories for managing, processing and recycling.
- ✓ Training staff and creating jobs.
- ✓ Capitalising on results.

April 2018

https://twistproject.eu/fr/

EUWI+ East: Support for reforms to the water sector in countries neighbouring the European Union

CENTRAL AND EASTERN EUROPE | Armenia | Azerbaijan | Belarus | Georgia | Moldova | Ukraine

European Commission

- Sewage treatment and drinking water
- Water and agriculture
- Water and climate change
- Water resources management

The development and implementation of efficient resource management is supported by the management of cross-border hydrographic basins. The Water Framework Directive (WFD) and other European theme and sector related directives on water are developed to improve their application.

- ✓ Institutional analysis.
- ✓ Implementing activities on pilot basins.
- ✓ Developing and implementing RBMPs with the participation of stakeholders at every level (basin, national, international) and shared data management.

April 2016

http://www.euwipluseast.eu

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Supporting integrated water resources management implementation

AFRICA | Burkina Faso - Nakanbé Basin

Nakanbé Water Agency (AEN)

- Water resources management

The areas of cooperation implemented relate to the governance and planning of integrated water resources management, managing water data, sustainable financing mechanisms, meetings and study visits.

- ✓ Supporting the consolidation of water governance and planning tools.
- ✓ Improving the management of data of water, at the river basin and national levels.
- ✓ Developing and implementing sustainable financing mechanisms suited to the river basin context.

January 2012

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Technical support for implementing an integrated water resources management policy

AFRICA | Senegal

Water resources management and planning unit, executive structures at the Sine Saloum management and planning unit and at the Somone sub-unit

- Water resources management
- Information systems

Improving expertise and management resources, creating a favourable environment through suitable governance, communication and information, education and awareness of water and biodiversity are all implemented to develop integrated water resources management in Senegal.

- ✓ Development discussion/participation mechanisms and management structures.
- ✓ Situation report/diagnostics and proposals in information systems terms.
- ✓ Incubating projects for adapting to climate change.

November 2018

Technical assistance for implementing the water strategy for 2050

AFRICA / MEDITERRANEAN | Tunisia

HRBP Tunisia, Ministry of Agriculture, Water Resources and Fisheries

- Sewage
- Drinking water
- Water resources management

This project is intended to contribute to socio-economic development by securing the availability and sustainable, equitable and efficient access to water resources in Tunisia by 2050, by following an integrated management approach and through structuring investments and suitable reforms to the sector.

- ✓ Supporting the Project Coordination Unit (PCU) while starting and managing the project, as well as in coordinating the various stakeholders who will be involved.
- ✓ Developing a program for enhancing the capacities of the various stakeholders.

October 2018

Decentralised cooperation and integrated water resources management in Togo and Benin (Phases 1, 2 and 3)

AFRICA | Benin, Togo - Cross-border Mono catchment area

Ministry of Water in Benin and Togo, Mono Basin Authority (ABM)

- Water resources management

This cooperation supports the implementation of the integrated water resources management process by facilitating international solidarity projects in the context of the Oudin Santini law and by increasing the capacities of the Mono Basin Authority (ABM).

- ✓ Assisting the Mono Basin Authority with implementation.
- ✓ Supporting the roll-out of the Strategic Plan and its Operational Plan in Benin and Togo.
- ✓ Supporting the process of drawing up planning documents.
- ✓ Analysing the implementation of a system for forecasting and preventing flooding.

July 2014

Integrated water resources management project - Phase 1

AFRICA | Côte d'Ivoire - Bandama Basin

Department for the Protection and the Development of Water Resources, Ministry of Water and Forests (MINEF) of the Republic of Côte d'Ivoire

- Water resources management

Implementing integrated water resources management for the Bandama Basin pilot project requires a development outline and development that is set out in an agreed and legally sound way.

- ✓ IOWater provides overall support to this approach.
- ✓ Developing an information system for integrated water resources management that is georeferenced and accessible on-line.
- ✓ Analysing the legal and institutional framework.
- ✓ Mapping basin stakeholders.
- ✓ Developing a water development and management plan (SAGE) type document.
- ✓ Seeking sustainable financing mechanisms.

October 2020

Enhancing the management capacities at Nairobi City Water and Sewerage Company and performance

AFRICA | Kenya

Nairobi City Water and Sewerage Company (NCWSC)

- Sewage
- Drinking water

Supporting Nairobi City Water and Sewerage Company (NCWSC) in their policy to reduce Non Revenue Water (NRW) which will enable an overall expansion of the company's own investment capacity and the move towards financial balance.

- ✓ Implementing a unit dedicated to reducing NRW.
- ✓ Analysing customer management procedures.
- ✓ Making recommendations and providing training.
- ✓ Updating the customer database.
- ✓ Implementing a performance contract with a private operator to reduce NRW in a pilot area.

June 2012

Mono Basin - Phase 3

AFRICA | Togo, Benin - Mono Basin

AERMC

- Water resources management

The Mono program aims to provide support in implementing integrated water resource management in the cross-border Mono catchment basin between Togo and Benin. This support is provided to the relevant ministerial departments in the two countries and to the Mono Basin Authority.

- ✓ Improving governance.
- ✓ Developing planning.
- ✓ Evolving information systems.
- ✓ Financial mechanisms.

April 2018

Supporting improvements to water resources management - FEXTE Peru

LATIN AMERICA | Peru - Arequipa, Cusco

Ministry of Housing, Construction and Sanitation

- Sewage
- Drinking water

Providing support in moving towards improved water resources management (the supply of drinking water, treating waste water, preventing and managing hydro-climatic risks) mobilises a cross-functional institutional support approach combining assessment, training and improvements in governance.

- ✓ Identifying requirements.
- ✓ Proposing and completing projects to implement (writing terms of reference, tendering, selecting contractors, monitoring, inspecting and payment).
- ✓ Implementing training courses.

July 2018

Organisational audit of the Sahara and Sahel Observatory (OSS)

AFRICA / MEDITERRANEAN | Tunisia - Tunis

Sahara and Sahel Observatory

- Water
- Climate change
- Water resources management

The organisational audit of current operations will allow the Sahara and Sahel Observatory (OSS) to better carry out its mission to support member countries in sustainably managing their natural resources in an especially unfavourable climate change context. A strategic plan will be deployed on completing the audit.

- ✓ Assessing the relevance and the efficiency of the institutional and organisational arrangements at OSS, in relation to its vision, mission, objectives and the results achieved.
- ✓ Proposing modifications-changes for implementing a Strategic Plan for 2030.

November 2019

http://www.oss-online.org/fr

Supporting Integrated Water Resources Management - Phase 2

LATIN AMERICA | Cuba - Almendares-Vento (Havana) hydrographic basin

National Institute of Hydraulic Resources (INRH) of Cuba

- Water resources management
- Information systems

Modernising integrated water resources management in Cuba through technical support for implementing a water information system and the observatory for the Almendares-Vento basin.

- ✓ Assessment, discussion and advice on consolidating water governance at the national level as well as in the pilot basin
- ✓ Improving the characterisation of the hydrographic basin (supplying monitoring equipment)
- ✓ Implementing an information system based on data interoperability

November 2019

Integrated Water Resources Management - Phase 3

LATIN AMERICA | Colombia - Magdalena - Cauca hydrographic basin

Ministry of Environment and Sustainable Development (MADS)

- Water resources management
- Water security
- Circular economy
- Groundwater

Supporting the implementation of a policy of integrated water resources management by supporting the organisation of Autonomous Regional Corporations structuring the basin councils, completed by developing information systems on water.

- ✓ Prioritising the challenges relating to water security
- ✓ Planning reformulation strategy
- ✓ Specific recommendations for managing and monitoring groundwater
- ✓ Sharing experience on the reuse of treated waste water

November 2018

Support for integrated water resources management on the Stung Sen - Phase IV

ASIA | Cambodia - Tonle Sap catchment area, Stung Sen sub-basin

Ministry of Water Resources and Meterology (MOWRAM)

- Water resources management
- Information systems

This phase in the project to support integrated water resources management is dedicated to reinforcing the participative process around the basin, to training ministry staff and to the process of summarising and updating planning on the Stung Sen.

- ✓ Continuing the integrated water resources management experiment (for the Stung Sen basin).
- ✓ Support at the nationwide level.
- ✓ Training course leaders.

June 2019

Support for implementing integrated water resources management

LATIN AMERICA | Peru

National Water Authority (ANA) of Peru

- Water resources management
- Water environments

Modernisation of water resources management and the implementation of integrated water resources management combining strategic actions on training, reinforcing governance and improving data management.

- ✓ Technical assistance
- ✓ International training assignments
- ✓ Sharing experience between basin stakeholders

December 2018

Assessing reports by European Union member states on the implementation of the program of measures and the hydrographic basin measurement plan for countries that were late in adopting and/or reporting and reporting on Environmental Quality Standards (EQS).

EUROPE | Austria | Belgium | Cyprus | Estonia | France | Germany | Hungary | Luxembourg | Malta | Slovenia

Ramboll for European Union Environment DG

- Water resources management
- Environmental Quality Standards

The project provides technical assistance to the European Commission in developing a methodology for assessing and preparing technical reports for each of the assessments required, using the methodology developed and agreed with the Commission.

- ✓ Assessing reports from member states on the implementation of the program of measures and the river basin measurement plan (RBMP) for countries that were late in adopting and/or reporting.
- ✓ Reporting on EQS.

August 2020

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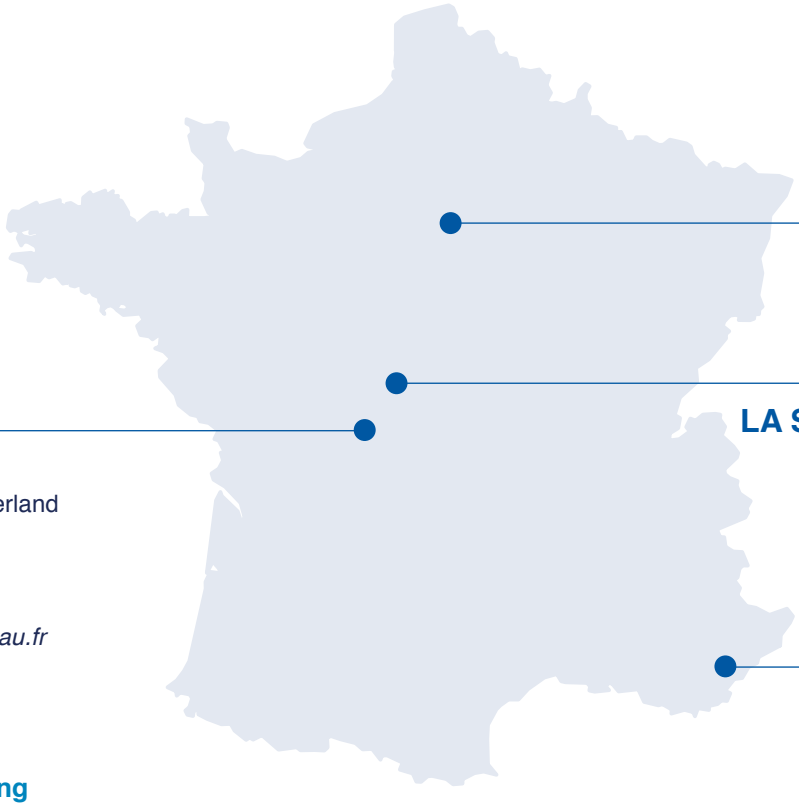

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